

A STUDY OF ASSOCIATION IN INSANITY

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PART I.

ASSOCIATION IN NORMAL SUBJECTS.

Among the most striking and commonly observed manifestations of insanity are certain disorders of the flow of utterance which appear to be dependent upon a derangement of the psychical processes commonly termed association of ideas. These disorders have to some extent been made the subject of psychological experimentation, and the object of this investigation is to continue and extend the study of these phenomena by an application of the experimental method known as the association test.

§ I. METHOD OF INVESTIGATION.

In this investigation we have followed a modified form of the method developed by Sommer,¹ the essential feature of which is the statistical treatment of results obtained by uniform technique from a large number of cases.

The stimulus consists of a series of one hundred spoken words, to each of which the subject is directed to react by the first word which it makes him think of. In the selection of the stimulus words, sixty-six of which were taken from the list suggested by Sommer, we have taken care to avoid such words as are especially liable to call up personal experiences, and have so arranged the words as to separate any two which bear an obviously close relation to one another. After much preliminary experimentation we adopted the following list of words:

1 Table	11 Black	21 Sweet	31 Rough	41 High
2 Dark	12 Mutton	22 Whistle	32 Citizen	42 Working
3 Music	13 Comfort	23 Woman	33 Foot	43 Sour
4 Sickness	14 Hand	24 Cold	34 Spider	44 Earth
5 Man	15 Short	25 Slow	35 Needle	45 Trouble
6 Deep	16 Fruit	26 Wish	36 Red	46 Soldier
7 Soft	17 Butterfly	27 River	37 Sleep	47 Cabbage
8 Eating	18 Smooth	28 White	38 Anger	48 Hard
9 Mountain	19 Command	29 Beautiful	39 Carpet	49 Eagle
10 House	20 Chair	30 Window	40 Girl	50 Stomach

¹ Diagnostik der Geisteskrankheiten, p. 112.

51 Stem	61 Memory	71 Stove	81 Butter	91 Moon
52 Lamp	62 Sheep	72 Long	82 Doctor	92 Scissors
53 Dream	63 Bath	73 Religion	83 Louie	93 Quiet
54 Yellow	64 Cottage	74 Whiskey	84 Thief	94 Green
55 Bread	65 Swift	75 Child	85 Lion	95 Salt
56 Justice	66 Blue	76 Bitter	86 Joy	96 Street
57 Boy	67 Hungry	77 Hammer	87 Bed	97 King
58 Light	68 Priest	78 Thirsty	88 Heavy	98 Cheese
59 Health	69 Ocean	79 City	89 Tobacco	99 Blossom
60 Bible	70 Head	80 Square	90 Baby	100 Afraid

No attempt is made to secure uniformity of external conditions for the test; the aim has been rather to make it so simple as to render strictly experimental conditions unnecessary. The test may be made in any room that is reasonably free from distracting influences; the subject is seated with his back toward the experimenter, so that he cannot see the record; he is requested to respond to each stimulus word by one word, the first word that occurs to him other than the stimulus word itself, and on no account more than one word. If an untrained subject reacts by a sentence or phrase, a compound word, or a different grammatical form of the stimulus word, the reaction is left unrecorded, and the stimulus word is repeated at the close of the test.

In this investigation no account is taken of the reaction time. The reasons for this will be explained later.

The general plan has been first to apply the test to normal persons, so as to derive empirically a normal standard and to determine, if possible, the nature and limits of normal variation; and then to apply it to cases of various forms of insanity and to compare the results with the normal standard, with a view to determining the nature of pathological variation.

§ 2. THE NORMAL STANDARD.

In order to establish a standard which should fairly represent at least all the common types of association and which should show the extent of such variation as might be due to differences in sex, temperament, education, and environment, we have applied the test to over one thousand normal subjects.

Among these subjects were persons of both sexes and of ages ranging from eight years to over eighty years, persons following different occupations, possessing various degrees of mental capacity and education, and living in widely separated localities. Many were from Ireland, and some of these had but recently arrived in this country; others were from different parts of Europe,

but all were able to speak English with at least fair fluency. Over two hundred of the subjects, including a few university professors and other highly practiced observers, were professional men and women or college students. About five hundred were employed in one or another of the New York State hospitals for the insane, either as nurses and attendants or as workers at various trades; the majority of these were persons of common school education, but the group includes also, on the one hand, a considerable number of high school graduates; and on the other hand, a few laborers who were almost or wholly illiterate. Nearly one hundred and fifty of the subjects were boys and girls of high school age, pupils of the Ethical Culture School, New York City. The remaining subjects form a miscellaneous group, consisting largely of clerks and farmers.

§ 3. THE FREQUENCY TABLES.

From the records obtained from these normal subjects, including in all 100,000 reactions, we have compiled a series of tables, one for each stimulus word, showing all the different reactions given by one thousand subjects in response to that stimulus word, and the frequency with which each reaction has occurred.* These tables will be found at the end of this paper.

With the exception of a few distinctive proper names, which are indicated by initials, we have followed the plan of introducing each word into the table exactly as it was found in the record. In the arrangement of the words in each table, we have placed together all the derivatives of a single root, regardless of the strict alphabetical order.*

* A similar method of treating associations has been used by Cattell (*Mind*, Vol. XII, p. 68; Vol. XIV, p. 230), and more recently by Reinhold (*Zeitschr. f. Psychol.*, Vol. LIV, p. 183), but for other purposes.

* It should be mentioned that we have discovered a few errors in these tables. Some of these were made in compiling them from the records, and were evidently due to the assistant's difficulty of reading a strange handwriting. Other errors have been found in the records themselves. Each of the stimulus words *butter*, *tobacco* and *king* appears from the tables to have been repeated by a subject as a reaction; such a reaction, had it occurred, would not have been accepted, and it is plain that the experimenter wrote the stimulus word in the space where the reaction word should have been written. Still other errors were due to the experimenter's failure to

The total number of different words elicited in response to any stimulus word is limited, varying from two hundred and eighty words in response to *anger* to seventy-two words in response to *needle*. Furthermore, for the great majority of subjects the limits are still narrower; to take a striking instance, in response to *dark* eight hundred subjects gave one or another of the following seven words: *light, night, black, color, room, bright, gloomy*; while only two hundred gave reactions other than these words; and only seventy subjects, out of the total number of one thousand, gave reactions which were not given by any other subject.

If any record obtained by this method be examined by referring to the frequency tables, the reactions contained in it will fall into two classes: the *common* reactions, those which are to be found in the tables, and the *individual* reactions, those which are not to be found in the tables. For the sake of accuracy, any reaction word which is not found in the table in its identical form, but which is a grammatical variant of a word found there, may be classed as *doubtful*.

The value of any reaction may be expressed by the figure representing the percentage of subjects who gave it. Thus the reaction, *table-chair*, which was given by two hundred and sixty-seven out of the total of our one thousand subjects, possesses a value of 26.7 per cent. The significance of this value from the clinical standpoint will be discussed later.

§ 4. NORMAL ASSOCIATIONAL TENDENCIES.

The normal subjects gave, on the average, 6.8 per cent of individual reactions, 1.5 per cent of doubtful ones, and 91.7 per cent of common ones. The range of variation was rather wide, a considerable number of subjects giving no individual reactions at all, while a few gave over 30 per cent.*

speak with sufficient distinctness when reading off the stimulus words; thus, the reaction *barks* in response to *dark* indicates that the stimulus word was probably understood as *dog*; and the reactions *blur* and *color* in response to *bread* indicate that the stimulus word was understood as *red*.

* In the study of the reactions furnished by our normal subjects it was possible to analyze the record of any subject only by removing it from the mass of material which forms our tables, and using as the standard of comparison the reactions of the remaining 999 subjects.

In order to determine the influence of age, sex, and education upon the tendency to give reactions of various values, we have selected three groups of subjects for special study: (1) one hundred persons of collegiate or professional education; (2) one hundred persons of common school education, employed in one of the State hospitals as attendants, but not as trained nurses; and (3) seventy-eight children under sixteen years of age. The reactions given by these subjects have been classified according to frequency of occurrence into seven groups: (a) individual reactions (value 0); (b) doubtful reactions (value \pm); (c) reactions given by one other person (value 0.1 per cent); (d) those given by from two to five others (value 0.2—0.5 per cent); (e) those given by from six to fifteen others (value 0.6—1.5 per cent); (f) those given by from sixteen to one hundred others (value 1.6—10.0 per cent); and (g) those given by more than one hundred others (value over 10.0 per cent). The averages obtained from these groups of subjects are shown in Table I, and the figures for men and women are given separately.

TABLE I.

Value of reactions	Sex	Number of cases	0	\pm	0.1%	0.2-0.5%	0.6-1.5%	1.6-10%	Over 10%
			%	%	%	%	%	%	%
Persons of collegiate education	M.	60	9.2	1.3	5.2	9.7	11.0	27.8	35.5
	F.	40	9.5	1.3	3.0	9.8	11.7	28.9	33.4
	Both ..	100	9.3	1.3	4.7	9.7	11.3	28.2	34.4
Persons of common school education	M.	50	5.8	1.6	8.6	8.3	10.2	31.6	38.7
	F.	50	4.6	1.3	8.3	7.1	9.4	32.0	42.1
	Both ..	100	5.2	1.4	8.5	7.7	9.8	31.8	40.4
School children under 16 years of age	M.	83	5.9	0.8	4.2	8.7	10.6	28.5	38.5
	F.	45	5.6	1.9	4.6	9.8	11.6	30.1	36.7
	Both ..	78	5.7	1.4	4.5	9.8	11.2	29.4	37.4
General average....	Both ..	1000	6.8	1.5					

It will be observed that the proportion of individual reactions given by the subjects of collegiate education is slightly above the general average for all subjects, while that of each of the other classes is below the general average. In view, however, of the wide limits of variation, among the thousand subjects, these deviations from the general average are no larger than might quite possibly occur by chance, and the number of cases in each group is so small that the conclusion that education tends to increase the number of individual reactions would hardly be justified.

It will be observed also that this comparative study does not show any considerable differences corresponding to age or sex.

With regard to the type of reaction, it is possible to select groups of records which present more or less consistently one of the following special tendencies: (1) the tendency to react by contrasts; (2) the tendency to react by synonyms or other defining terms; and (3) the tendency to react by qualifying or specifying terms. How clearly the selected groups show these tendencies is indicated by Table II. The majority of records, however, present no such tendency in a consistent way; nor is there any evidence to show that these tendencies, when they occur, are to be regarded as manifestations of permanent mental characteristics, since they might quite possibly be due to a more or less accidental and transient associational direction. No further study has as yet been made of these tendencies, for the reason that they do not appear to possess any pathological significance.

TABLE II.

Special group values.

Stimulus word.	Reaction word.	General value.	Contrasting group		Defining group		Specifying group	
			%	No.	%	No.	%	No.
1. Table....	chair	26.7	25	51.0	11	15.1	10	11.9
	furniture	7.5	0	0	13	17.8	4	4.8
	round	1.0	1	2.0	0	0	4	4.5
	wood	7.6	2	4.1	9	12.3	10	11.9
7. Soft....	cotton	2.8	0	0	1	1.4	5	6.0
	easy	3.4	0	0	8	11.0	1	1.2
	feathers	2.4	0	0	1	1.4	5	6.0
	hard	36.5	34	69.4	14	19.2	18	21.4
	silk	1.0	0	0	0	0	2	2.4
	sponge	2.2	0	0	0	0	4	4.8
11. Black...	cloth	1.7	1	2.0	0	0	3	3.6
	color	12.9	0	0	20	27.4	6	7.1
	dress	2.9	1	2.0	1	1.4	9	10.7
	ink	1.4	0	0	1	1.4	4	4.8
	white	33.9	31	63.3	17	23.3	18	21.4
26. Wish...	desire	19.7	7	14.3	21	23.8	10	11.9
	longing	1.9	1	2.0	6	8.2	2	2.4
	money	3.2	0	0	1	1.4	3	3.6
29. Beau- tiful..	flowers	4.2	0	0	1	1.4	7	8.3
	girl	2.4	0	0	0	0	5	6.0
	homely	2.7	3	6.1	0	0	0	0
	lovely	6.4	2	4.1	7	9.6	2	2.4
	pleasing	1.6	0	0	3	4.1	0	0
	sky	1.6	0	0	0	0	3	3.6
	ugly	6.6	13	26.5	3	4.1	0	0

TABLE II.—Continued.

56. Justice.	court	6.4	2	4.1	5	6.8	10	11.9
	injustice	2.6	6	12.2	1	1.4	0	0
	right	15.7	3	6.1	20	27.4	13	15.5
	comfort	2.6	0	0	5	6.8	1	1.2
	disease	0.9	2	4.1	0	0	1	1.2
59. Health.	good	9.4	2	4.1	8	11.0	18	21.4
	sickness	15.3	28	46.9	6	8.2	1	1.2
	strength	11.2	2	4.1	12	16.4	4	4.8
	arrow	1.3	0	0	0	0	2	2.4
	fast	22.2	0	0	25	34.2	15	17.9
	horse	2.8	1	2.0	1	1.4	6	7.1
65. Swift...	quick	11.7	1	2.0	22	30.1	2	2.4
	run	1.9	0	0	0	0	4	4.8
	runner	1.3	0	0	0	0	1	1.2
	slow	19.0	30	61.2	2	2.7	4	4.8
	speed	2.9	1	2.0	5	6.8	0	0
	disagreeable	1.0	0	0	2	2.7	0	0
	distasteful	1.0	0	0	4	5.5	0	0
76. Bitter...	gall	4.2	0	0	2	2.7	8	9.5
	medicine	3.7	0	0	0	0	3	3.6
	quinine	2.3	0	0	0	0	6	7.1
	sweet	30.5	31	63.3	8	11.0	12	14.3
	taste	6.6	1	2.0	17	23.3	3	3.6
	bread	20.6	17	34.7	4	5.5	18	21.4
81. Butter...	eatable	1.2	0	0	9	12.3	0	0
	food	6.3	1	2.0	14	19.2	3	3.6
	sweet	1.2	0	0	0	0	3	3.6
	yellow	8.0	0	0	0	0	18	21.4
	gladness	4.4	0	0	7	9.6	1	1.2
86. Joy....	grief	1.8	4	8.2	0	0	0	0
	pleasure	12.1	1	2.0	13	17.8	7	8.3
	sadness	1.3	2	4.1	0	0	0	0
	sorrow	13.5	28	46.9	2	2.7	2	2.4

§ 5. PRACTICAL CONSIDERATIONS.

This method is so simple that it requires but little training on the part of the experimenter, and but little co-operation on the part of the subject. It is not to be assumed that every reaction obtained by it is a true and immediate association to the corresponding stimulus word; but we have found it sufficient for the purpose of the test if the subject can be induced to give, in response to each stimulus word, any one word other than the stimulus word itself. No attempt is made to determine the exact degree of co-operation in any case.

In the early stages of this investigation the reaction time was regularly recorded. The results showed remarkable variations, among both normal and insane subjects. In a series of twenty-five tests, made more recently upon normal subjects, ninety reactions occupied more than ten seconds, and fifty-four of the stimulus words elicited a ten-second response from at least one subject.⁵

It is noteworthy that these extremely long intervals occur in connection with reactions of widely differing values. That they are by no means limited to individual reactions is shown in Table III. by a group of selected reactions, all given by normal subjects.

TABLE III.

Word combination	Reaction time in seconds.	Value of reaction.
comfort—happiness	20	5.0%
short—long	11	27.9%
smooth—plane	16	2.8%
woman—lady	40	4.1%
hard—iron	12	2.4%
justice—judge	20	9.1%
memory—thought	20	8.1%
joy—pleasure	18	12.1%

It is apparent, even from a superficial examination of the material, that the factors which cause variations of reaction time, both in the normal state and in pathological states, are numerous and complex.

It has been the purpose of this study to establish as far as possible strictly objective criteria for distinguishing normal from abnormal associations, and for this reason we have made no attempt to determine by means of introspection the causes of variations of reaction time.

It would seem that the importance and magnitude of the problem of association time are such as to demand not merely a crude measurement of the gross reaction time in a large number of cases, but rather a special investigation by such exact methods as have been used by Cattell⁶ and others in the analysis of the complex reaction. It would be impracticable for us to employ such methods in a study so extensive as this.

In view of these considerations we discontinued the recording of the reaction time.

⁵ These tests were made by Dr. F. Lyman Wells, of the McLean Hospital, Waverley, Mass., and he has kindly furnished these data.

⁶ Mind, Vol. XI, 1886.

If the association test is to be useful in the study of pathological conditions, it is of great importance to have a reliable measure of the associational value of a pair of ideas. Many attempts have been made to modify and amplify the classical grouping of associations according to similarity, contrast, contiguity, and sequence, so as to make it serviceable in differentiating between normal and abnormal associations.

In this study we attempted to apply Aschaffenburg's⁷ classification of reactions, but without success. Our failure to utilize this system of classification is assigned to the following considerations: (1) Distinctions between associations according to logical relations are extremely difficult to define; in many cases there is room for difference of opinion as to the proper place for an association, and thus the application of a logical scheme depends largely upon the personal equation of the observer; that even experienced observers cannot, in all cases, agree in placing an association is shown by Aschaffenburg's criticisms of the opinions of other observers on this point.⁸ (2) Logical distinctions do not bring out clearly the differences between the reactions of normal subjects and those of insane subjects; logically, the reaction *bath—ink*, which was given by a patient, might be placed in the class with the reaction *bath—water*, although there is an obvious difference between the two reactions. (3) Many of the reactions given by insane subjects possess no obvious logical value whatever; but since any combination of ideas may represent a relationship, either real or imagined, it would be arbitrary to characterize such a reaction as incoherent.

The criterion of values which is used in this study is an empirical one. As has already been explained (p. 8), every word contained in the frequency tables possesses a value of at least 0.1 per cent, and other words have a zero value. With the aid of our method the difficulty of classifying the reactions quoted above is obviated, as it is necessary only to refer to the table to find their proper values: the value of the reaction *bath—water* is 33.9 per cent, while that of the reaction *bath—ink* is 0.

⁷ Experimentelle Studien über Association. Psychologische Arbeiten, Vol. I, p. 209; Vol. II, p. 1; Vol. IV, p. 235.

⁸ Loc. cit., Vol. I, pp. 226-227.

Logically the combination *health—wealth* may be placed in any one of four classes, as follows:

$$\text{health—wealth} \left\{ \begin{array}{l} \text{intrinsic} \left\{ \begin{array}{l} \text{causal dependence} \\ \text{coordination} \end{array} \right. \\ \text{extrinsic} \left\{ \begin{array}{l} \text{speech reminiscence} \\ \text{sound similarity} \end{array} \right. \end{array} \right.$$

But since our table shows this association to have an empirical value of 7.6 per cent, it becomes immaterial which of its logical relations is to be considered the strongest. It is mainly important, from our point of view, to separate reactions possessing an empirical value from those whose value is zero.

§ 6. AN EMPIRICAL PRINCIPLE OF NORMAL ASSOCIATION.

On a general survey of the whole mass of material which forms the basis of the first part of this study, we are led to observe that *the one tendency which appears to be almost universal among normal persons is the tendency to give in response to any stimulus word one or another of a small group of common reactions.*

It appears from the pathological material now on hand that this tendency is greatly weakened in some cases of mental disease. Many patients have given more than 50 per cent of individual reactions.

It should be mentioned that occasionally a presumably normal subject has given a record very similar to those obtained from patients, in respect to both the number and the nature of the individual reactions. A few subjects who gave peculiar reactions were known to possess significant eccentricities, and for this reason we excluded their records from the thousand records which furnished the basis for the frequency tables; we excluded also a few peculiar records obtained from subjects of whom nothing was known, on the ground that such records would serve only to make the tables more cumbersome, without adding anything to their practical value. The total number of records thus excluded was seventeen.

It will be apparent to anyone who examines the frequency tables that the reactions obtained from one thousand persons fall short of exhausting the normal associational possibilities of these stimulus words. The tables, however, have been found to be sufficiently inclusive for the practical purpose which they were intended to

serve. Common reactions, whether given by a sane or an insane subject, may, in the vast majority of instances, safely be regarded as normal. As to individual reactions, they cannot all be regarded as abnormal, but they include nearly all those reactions which are worthy of special analysis in view of their possible pathological significance. What can be said further of individual reactions, whether normal or abnormal, will appear in the second part of this contribution.

PART II.

ASSOCIATION IN INSANE SUBJECTS.

§ I. GENERAL SURVEY OF PATHOLOGICAL MATERIAL.

The pathological material which forms the basis of the present part of our study consists mainly of two hundred and forty-seven test records obtained for the most part from patients at the Kings Park State Hospital.

The different groups from which the cases were selected, together with the number from each group, are shown in Table I.

TABLE I.

Dementia praecox	108 cases.
Paranoic conditions	33 "
Epilepsy	24 "
General paresis	32 "
Manic-depressive insanity	32 "
Involuntional melancholia	8 "
Alcoholic psychoses	6 "
Senile dementia	4 "

A comparison of our pathological with our normal material *en masse* reveals in the former evidence of a weakening of the normal tendency to respond by common reactions. This is shown in Table II.

TABLE II.

	Common reactions.	Doubtful reactions.	Individual reactions.
1,000 normal subjects	91.7%	1.5%	6.8%
247 insane subjects	70.7%	2.5%	26.8%

It seems evident from this that pathological significance attaches mainly to individual reactions, so that our study resolves itself largely into (1) an analysis and classification of individual reactions and (2) an attempt to determine what relationship, if any, exists between the different types of reactions and the different clinical forms of mental disease.

§ 2. CLASSIFICATION OF REACTIONS.

Those who have attempted to use the association test in the study of insanity have felt the need of a practical classification of reactions, and have at the same time encountered the difficulty of establishing definite criteria for distinguishing the different groups from one another. It is a comparatively simple matter to make these distinctions in a general way and even to formulate a more or less comprehensive theoretical classification, but there still remains much difficulty in practice. We have made repeated attempts to utilize various systems of classification which involve free play of personal equation in their application. Although for us the matter is greatly simplified by the elimination of all the common reactions with the aid of the frequency tables, we have nevertheless met with no success. The distinctions made by either of us have on no occasion fully satisfied, at the second reading, either the one who made them or the other, while a comparison of the distinctions made by each of us independently has shown a disagreement to the extent of 20—35 per cent.

We sought, therefore, to formulate a classification in which the various groups should be so defined as to obviate the interference of personal equation in the work of applying it, hoping thus to achieve greater accuracy. In this we can lay claim to only partial success; for, in the first place, having satisfactorily defined a number of groups, we found it necessary in the end to provide a special group for unclassified reactions, into which falls more than one-third of the total number of individual reactions; and, in the second place, in at least two of our groups the play of personal equation has not been entirely eliminated, so that there is still a possibility of error to the extent of five per cent of individual reactions, which means approximately one per cent of the total number of reactions. We have found, however, that in spite of these shortcomings the classification here proposed is more serviceable than others which, though more comprehensive, are at the same time lacking in definiteness.

Our classification consists of the following classes, groups and subdivisions:

- I. *Common reactions.*
 - 1. Specific reactions.
 - 2. Non-specific reactions.
- II. *Doubtful reactions.*
- III. *Individual reactions.*
 - 1. Normal reactions.
 - 2. Pathological reactions:
 - A. Derivatives of stimulus words.
 - B. Partial dissociation:
 - (a) Non-specific reactions.
 - (b) Sound reactions:
 - a. Words.
 - b. Neologisms.
 - (c) Word complements.
 - (d) Particles of speech.
 - C. Complete dissociation:
 - (a) Perseveration:
 - a. Association to preceding stimulus.
 - b. Association to preceding reaction.
 - y. Repetition of preceding stimulus.
 - d. Repetition of previous stimulus.
 - e. Repetition of preceding reaction.
 - z. Repetition of previous reaction.
 - η. Reaction repeated five times (stereotypy).
 - (b) Neologisms without sound relation.
 - 3. Unclassified.

§ 3. NON-SPECIFIC REACTIONS; DOUBTFUL REACTIONS.

Non-specific Reactions.—It has already been intimated that common reactions are in the vast majority of instances to be regarded as normal. From amongst them, however, a fairly definite group can be separated out which seems to possess some pathological significance, namely, the group which we have termed non-specific.

In this group are placed words which are so widely applicable as to serve as more or less appropriate reactions to almost any of our stimulus words. That such reactions are in value inferior to the remaining group of common reactions, which we have termed, in contradistinction, *specific reactions*, is perhaps sufficiently obvious; we shall speak later, however, of their occurrence in both normal and insane cases.

It is not always easy to judge whether or not a given reaction should be classed as non-specific. A study of our material made with special reference to this type of reactions has enabled us to select the following list of words, any of which, occurring in response to any stimulus word, is classed as a non-specific reaction:

article, articles
bad
beautiful, beauty
fine
good, goodness
great
happiness, happy
large
man
necessary, necessity
nice
object (noun)
people
person
pleasant, pleasantness, pleasing, pleasure
pretty
small
thinking, thought, thoughts
unnecessary
unpleasant
use, used, useful, usefulness, useless, uselessness, uses, using
woman
work

It should be mentioned that some of these words occur as reactions to one or several stimulus words with such frequency (*citizen—man*, value 27.8 per cent; *health—good*, value 9.4 per cent) as to acquire in such instances a value as high as that of strictly specific reactions.

Doubtful Reactions have already been defined (p. 40): any reaction word which is not found in the table in its identical form, but which is a grammatical variant or derivative of a word found there, is placed in this group.

§ 4. INDIVIDUAL REACTIONS; EXPLANATION OF GROUPS AND METHODS OF APPLICATION.

Normal Reactions.—Inasmuch as the frequency tables do not exhaust all normal possibilities of reaction, a certain number of reactions which are essentially normal are to be found among the individual reactions. In order to separate these from the pathological reactions, we have compiled an appendix to the frequency tables, consisting mainly of specific definitions of groups of words to be included under each stimulus word in our list. This appendix will be found at the end of this paper.

A word of explanation is perhaps due as to the manner in which the appendix has been compiled. It was developed in a purely empirical way, the basis being such individual reactions, given by both normal and insane subjects, as seemed in our judgment to be obviously normal.

It must be acknowledged that the appendix falls short of all that might be desired. In the first place, its use involves to some slight extent the play of personal equation, and it therefore constitutes a source of error; in the second place, it is in some respects too inclusive while in other respects it is not sufficiently so. However, the error due to personal equation is slight; the inclusion of certain "far-fetched" or even frankly pathological reactions may be discounted by bearing in mind that the general value of this group is not equal to that of the group of common reactions; and the number of strictly normal reactions which are not included is after all small. Our experience has shown us that the appendix constitutes an important aid in the analysis of individual reactions.

Pathological Reactions. Derivatives of Stimulus Words.—We place here any reaction which is a grammatical variant or derivative of a stimulus word. The tendency to give such reactions seems to be dependent upon a suspension or inhibition of the normal process by which the stimulus word excites the production of a new concept, for we have here not a production of a new concept but a mere change in the form of the stimulus word. As examples of such reactions may be mentioned: *eating—eatables, short—shortness, sweet—sweetened, quiet—quietness*.

Partial Dissociation.—We have employed the term dissociation to indicate a rupture of that bond—whatever be its nature—

which may be supposed to exist normally between stimulus and reaction and which causes normal persons to respond in the majority of instances by common reactions. And we speak of partial dissociation where there is still an obvious, though weak and superficial, connection. Under this heading we can differentiate four types:

Non-specific Reactions have already been defined; we distinguish those in this class from those in the class of common reactions by means of the frequency tables.

Sound Reactions.—This type requires no explanation; the main difficulty is to decide what degree of sound similarity between stimulus and reaction should be deemed sufficient for placing a reaction under this heading. The total number of different sounds used in language articulation is, of course, small, so that any two words are liable to present considerable chance similarity. Some time ago we estimated the average degree of sound similarity between stimulus words and reaction words in a series of one hundred test records obtained from normal persons; we found that on the average 14.53 per cent of the sounds of the stimulus words were reproduced, in the same order, in the reaction word. Our experience finally led us to adopt the following general rule: A reaction is to be placed under this heading when fifty per cent of the sounds of the shorter word of the pair are identical with sounds of the longer word and are ranged in the same order.

Among sound reactions we occasionally find neologisms; for these a separate heading is provided. Possibly their occurrence may be taken as an indication of an exaggerated tendency to respond by sound reactions.

Word Complements.—Here we include any reaction which, added to the stimulus word, forms a word, a proper name, or a compound word in common use.

Particles of Speech.—Under this heading we include articles, numerals, pronouns, auxiliary verbs, adverbs of time, place and degree, conjunctions, prepositions, and interjections.

Complete Dissociation.—Here are included reactions which appear to be entirely unrelated to the corresponding stimulus words; in the case of such reactions the stimulus words seem to act, as Aschaffenburg has pointed out, merely as signals for discharge. This subdivision contains several types of reactions which seem to be dependent upon the phenomenon of perseveration; it contains also the rather important type of neologisms.

The phenomenon of **perseveration** occurs in cases in which one may observe an abnormal immobility of attention. To react normally to a series of stimulus words requires on the part of the subject, in the first place, a certain alertness in order that he may grasp quickly and clearly the meaning of each word, and, in the second place, a prompt shifting of the mind from one reaction to the next. When such mental mobility is lacking the subject is liable to react not by a response adjusted to the stimulus word, but either by repeating a previous stimulus or reaction, or by giving a word associated to the preceding stimulus or reaction.

The names of the different types of reactions included under the heading of perseveration are sufficiently descriptive; we shall here refer only to those which require further definition.

Association to Preceding Stimulus.—Here is placed any reaction that is shown by the frequency tables to be related to the stimulus preceding the one in question. Seeming or even obvious relationship, if not established by reference to the frequency tables, is disregarded. In the tables, however, the combination may not exist in direct order but only in reverse order, in which case the reaction is included here. The following examples may serve as illustrations:

*thief—night
lion—pocket-book*

Lion—pocket-book is not found in the frequency tables, and is, therefore, an individual reaction; *thief—pocket-book*, however, is found there; *pocket-book* is, therefore, classed in this case as an association to preceding stimulus.

*table—fork
dark—mutton*

Dark—mutton is not found in the frequency tables; *table—mutton* is also not found there in the direct order, but is found in the reverse order, viz.: *mutton—table*; *mutton* is, therefore, classed in this case as an association to preceding stimulus.

Association to Preceding Reaction.—If either the reaction in question or the preceding reaction happens to be one of the stimulus words in our list, and a relationship between the two be found to exist by reference to the frequency tables—whether in direct or in reverse order—the reaction in question is classed as

an association to preceding reaction. This is illustrated by the following examples:

eating-table
mountain-floor

Mountain-floor is an individual reaction; *table-floor* is found in the frequency tables; *floor* is, therefore, classed as an association to preceding reaction.

beautiful-flowers
window-red

Window-red is an individual reaction; *red-flowers* is found in the frequency tables; therefore, *red* is classed as an association to preceding reaction.

In cases in which neither the reaction in question nor the preceding reaction happens to be one of our stimulus words, but a relationship between them may be judged to exist without considerable doubt, the reaction in question is also classed here. Example:

priest-father
ocean-mother

Ocean-mother is an individual reaction; neither the word *father* nor the word *mother* is among our stimulus words; but the association between the words *father* and *mother* may be judged to exist without considerable doubt; therefore, in this case *mother* is classed as an association to preceding reaction.

In such cases as this personal equation must necessarily come into play; comparative uniformity of judgment may, however, be attained by systematically excluding any reaction the relationship of which to the preceding reaction is subject to any considerable doubt and by placing any such reaction in the unclassified group.

Repetition of Previous Stimulus.—Here we place any reaction which is a repetition of any previous stimulus from amongst the ten next preceding, at the same time placing **repetition of preceding stimulus** under a separate heading.

Neologisms.—Here we place the newly coined words, so commonly given by the insane, excepting such as possess a sound relationship to the stimulus word, for which, as already stated, a special place in the classification has been provided.

Neologisms might be divided into three types, as follows: (1) those which arise from ignorance of language (*comfort—un-comfort, short—diminiature*) ; (2) distortions of actual words, apparently of pathological origin and not due to ignorance (*hungry—foodation, thief—dissteal*) ; and (3) those which seem to be without any meaning whatever (*scack, gehimper, hanrow, dicut*). It is, however, impossible to draw clear-cut distinctions between these types, and for this reason we have made no provision in our classification for such division.

Unclassified Reactions.—This group is important, in the first place, because it is numerically a large one, and in the second place, because it contains certain fairly definite types of reactions which are placed here for the sole reason that we have not been able to find strictly objective criteria for their differentiation from other types.

It has already been stated that the frequency tables, even together with the appendix, fail to exhaust all normal possibilities of association, so that a certain small number of perfectly normal reactions must fall into the unclassified group. We submit the following examples :

music—listen
smooth—suave
sour—curdled
earth—mound

Another type of reactions found in the unclassified group, though also normal, yet not obviously so until explained by the subject, is represented by those which originate from purely personal experiences, such as the following, given by normal subjects :

blossom—T
hammer—J

The first of these reactions is explained by the subject's acquaintance with a young lady, Miss T , who has been nicknamed "Blossom," and the second is explained by the subject's having among her pupils at school a boy by the name of J Hammer.

It would be difficult to estimate the proportion of such reactions in the unclassified group, but we have gained the general

impression that it is small. An attempt to place them in a separate group could be made only with the aid of explanations from the subjects; such aid in the case of insane subjects is generally unreliable. Moreover, to class these reactions as strictly normal would perhaps be going too far, since their general value is obviously inferior to that of the common reactions; and in any case in which they are given in unusually large numbers they must be regarded as manifestation of a tendency to depart from the normal to the extent to which they displace common reactions.

The next type of reactions met with in the unclassified group is characterized by a peculiarly superficial, or non-essential, or purely *circumstantial* relationship to the stimulus. Such reactions, though occasionally given by normal subjects, are more often given by insane ones, and seem to be somewhat characteristic of states of mental deterioration which are clinically rather loosely described as puerilism. We offer the following examples, given by normal subjects:

music—town
sickness—summer
child—unknown
house—center

Still another type of reactions to be considered in this connection consists of words which are in no way related to the corresponding stimulus words, but which arise from *distraction* of the subject by surrounding objects, sounds, and the like. In some cases the experimenter may be able to judge from the direction of the subject's gaze, from a listeping attitude, and so on, that certain reactions are due to distraction. In other cases, particularly in cases of normal subjects, the fact that certain reactions are due to distraction may be determined by questioning the subject on this point immediately after making the test. In work with insane subjects, as we have several times had occasion to point out, such aid is generally not available.

The group of unclassified reactions includes also one more type of reactions which are of great importance both numerically and otherwise. These are the *incoherent reactions*, that is to say, reactions which are determined neither by the stimulus words, nor by the agency of perseveration, nor by distraction.

Although the occurrence of incoherent reactions is hardly subject to doubt, yet in no instance is it possible to establish with certainty that a given reaction is of this type, for in no instance can a remote, or an imagined, or a merely symbolic relationship between stimulus and reaction be positively excluded. Some, indeed, would assert that some such relationship must necessarily exist in every instance, at least in the domain of the subconscious. This circumstance necessitates the placing of this type of reactions in the unclassified group.

In practice it may be found advisable in some cases to analyze the unclassified reactions with a view to ascertaining to what extent each of the various types is represented among them. But one here treads on slippery ground, and one must be continually warned against the danger of erroneous conclusions.

§ 5. ORDER OF PREFERENCE.

After having developed the classification here proposed we found that there was still considerable room for difference of opinion in the placing of many reactions, owing to the circumstance that in many cases a reaction presents features which render it assignable under any one of two or more headings. To leave the matter of preference in grouping to be decided in each case according to the best judgment of the experimenter would mean introducing again the play of personal equation, and would thus court failure of all our efforts to accomplish a standardization of the association test. Therefore, the necessity of establishing a proper order of preference for guidance in the application of the classification became to us quite apparent.

In the arrangement of the order of preference we were guided mainly by two principles, namely: (1) as between two groups of unequal definition, the one which is more clearly defined and which, therefore, leaves less play for personal equation is to be preferred; (2) as between two groups of equal definition, the one which possesses the greater pathological significance is to be preferred. In accordance with these principles we have adopted the order of preference shown in Table III., placing every reaction under the highest heading on the list under which it may be properly classed.

TABLE III.

1. Non-specific (common).
2. Doubtful reactions.

INDIVIDUAL REACTIONS.

3. Sound reactions (neologisms).
4. Neologisms without sound relation.
5. Repetition of preceding reaction.
6. Reaction repeated five times.
7. Repetition of preceding stimulus.
8. Derivatives.
9. Non-specific reactions.
10. Sound reactions (words).
11. Word complements.
12. Particles of speech.
13. Association to preceding stimulus.
14. Association to preceding reaction (by frequency tables).
15. Repetition of previous reaction.
16. Repetition of previous stimulus.
17. Normal (by appendix).
18. Association to preceding reaction (without frequency tables).
19. Unclassified.

§ 6. ERRORS INVOLVED IN THE USE OF ARBITRARY OBJECTIVE STANDARDS.

It may readily be seen that such definiteness and uniformity as this classification possesses results from the introduction of more or less arbitrary criteria for the differentiation of the various types of reactions. The question might arise, To what extent do the distinctions thus made correspond to reality? To consider, for instance, our rule for the placing of sound reactions (50 per cent of the sounds of the shorter word to be present, in the same order, in the other word) : when a given reaction (*man-minstrel*) is in accordance with the rule assigned under the heading of sound reactions, can it be assumed that sound similarity and not some other relationship is the determining factor of the association in question? Or when in a given instance (*cabbage-cobweb*) the sound similarity falls somewhat short of the standard required by the rule, can it be assumed that sound similarity is not, after all, the determining factor?

Similar questions may, of course, arise in connection with other subdivisions.

It must, indeed, be conceded that objective methods can reveal but indirectly and with uncertainty the inner mechanism which produces any association and that in any given instance it would be impossible to establish the correctness of grouping in accordance with such methods. However, to decide that question for any given reaction is really not necessary in practice, since an error

made through wrongly placing one, two, or three reactions under any heading is of no significance; the types acquire importance only when represented by large numbers in a record under consideration; and when many reactions fall under a single heading the likelihood of error, as affecting the record as a whole, is by that fact alone greatly reduced.

The whole question might more profitably be approached from another point of view: To what extent are the distinctions of this classification useful? An answer to this question can be found only in the results.

§ 7. ANALYSIS OF PATHOLOGICAL MATERIAL.

We present in Table IV. the results of a statistical examination of the records obtained from certain groups of normal subjects and from some groups of insane subjects.

The normal groups have been studied for the purpose of determining the frequency and manner of occurrence among normal subjects of the various types of abnormal reactions. It seemed best for this purpose to consider separately the records of those subjects who gave an unusually large number of individual reactions. Fifty-three records containing fifteen or more individual reactions were found after a fairly diligent search among our normal test records. In the other groups of subjects—persons of common school education, persons of collegiate education, and children—we included no records containing more than ten individual reactions.

The more striking departures from average normal figures are indicated in the table by the use of heavy type.

This table reveals some special associational tendencies as occurring in connection with the psychoses studied. A better insight into the nature of these tendencies can be gained by a special analysis of the test records of each clinical group.

DEMENTIA PRÆCOX.

In this psychosis we find the average number of individual reactions far exceeding not only that of the normal but also that of any other psychosis which we have studied. To a corresponding extent we find the average number of the highest type of normal reactions—the common specific reactions—reduced.

While almost every type of individual reactions shows here an

TABLE IV.

TYPES OF REACTIONS.

TYPES OF REACTIONS.		common reactions:									
		Specific reactions:					Non-specific reactions:				
86 normal subjects, common school education; records containing not over 10 individual reactions.	90 89.8 ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
46 normal subjects, school children; records containing not over 10 individual reactions.	90 89.7 ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
66 normal subjects, collegiate education; records containing not over 10 individual reactions.	4 4.9 ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
63 normal subjects; records containing not under 16 individual reactions.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
108 cases of dementia praecox.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
38 cases of paranoid conditions.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
24 cases of epilepsy.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
32 cases of general paresis.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.
32 cases of manic-depressive insanity.	... ... ...	All reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.	Individual reactions.	Average per cent of all reactions.

increase over the normal averages, the most striking increases are shown by the table to be in the groups of unclassified reactions, neologisms, sound reactions, and some types of perseveration. A further examination of the individual test records shows that there is no uniformity of associational tendencies in this clinical group, but that several tendencies are more or less frequently met with either alone or in various combinations. Yet some of these tendencies, when appearing at all prominently, are so highly characteristic of dementia *præcox* as to be almost pathognomonic. Among these may be mentioned: (1) the tendency to give *neologisms*, particularly those of the senseless type; (2) the tendency to give unclassified reactions largely of the *incoherent* type; and (3) the tendency toward *stereotypy* manifested chiefly by abnormally frequent repetitions of the same reaction. Fairly characteristic also is the occasional tendency to give sound reactions. Again, occasionally one encounters pronounced *perseveration*, and at least two of our subjects gave a good many unclassified reactions obviously due to *distraction*.

It must be noted that not infrequently cases of dementia *præcox* give test records that cannot be distinguished from normal. It seems that the pathological associational tendencies constitute merely a special group of symptoms, some of which may be expected to be manifest in cases which have reached a state of advanced mental deterioration, but may not necessarily be present in the early stages of the disease. On the other hand there is evidence to show that these tendencies may in some cases appear among the earliest manifestations. This matter will be referred to again.

Thus the test records of dementia *præcox* depart from the normal not sharply but by a gradual shading off. We find similar gradual transitions between dementia *præcox* and other psychoses. For this work we selected cases in which the diagnoses were established with reasonable certainty. Whether or not in cases of doubtful clinical classification this association test may be of aid in determining the diagnosis, is a question that must for the present remain open.

We submit herewith copies of test records. The numbers which appear after the reactions indicate in each case the reaction type, in accordance with Table III. (p. 27); common specific reactions are not numbered.

CASE No. 4752.—H. J. Neologisms; some unclassified reactions, mostly incoherent.

Table—meadow	19	Needle—himper	4	Ocean—himmer	4
Dark—black		Red—gumper	4	Head—himper	4
Music—sweet		Sleep—moop	4	Stove—gamper	4
Sickness—dead	2	Anger—rumble	19	Long—humble	19
Man—manion	3	Carpet—slamper	4	Religion—gumper	4
Deep—near	19	Girl—hinker	4	Whiskey—numper	4
Soft—sooner	19	High—humper	4	Child—himmer	4
Eating—formble	4	Working—gumpip	4	Bitter—gehimer	3
Mountain—gair	4	Sour—imper	4	Hammer—gueep	4
House—temple	4	Earth—gumper	4	Thirsty—humper	4
Black—benched	4	Trouble—humper	4	City—deeper	19
Mutton—ranched	4	Soldier—guipper	4	Square—hummer	4
Comfort—bumble	4	Cabbage—phar	4	Butter—bimper	3
Hand—semble	4	Hard—her	12	Doctor—harner	4
Short—simber	4	Eagle—damnornott	4	Loud—harner	4
Fruit—narrow	13	Stomach—dumper	4	Thief—himmer	4
Butterfly—Ben	19	Stem—gumper	4	Lion—humor	19
Smooth—gum	19	Lamp—hantzit	4	Joy—gumpier	4
Command—bramble	19	Dream—hungnot	4	Bed—hoomer	4
Chair—low		Yellow—bampir	4	Heavy—doomer	4
Sweet—temper	19	Bread—gumper	4	Tobacco—per	12
Whistle—bensid	4	Justice—sidnerber	4	Baby—hoomer	4
Woman—hummery	4	Boy—eepер	4	Moon—gumper	4
Cold—gunst	4	Light—hantzit	4	Scissors—gumper	4
Slow—bemper	4	Health—geeper	4	Quiet—humper	4
Wish—tip	19	Bible—himper	4	Green—gueset	3
River—gumper	4	Memory—hummer	19	Salt—rummer	4
White—Andes	19	Sheep—hunner	4	Street—numper	4
Beautiful—gimper	4	Bath—benzifper	4	King—himper	4
Window—hummer	4	Cottage—gumper	4	Cheese—guinter	4
Rough—geep	4	Swift—dumper	4	Blossom—yunger	4
Citizen—humer	4	Blue—dipper	19	Afraid—yunger	4
Foot—zuper	4	Hungry—hummer	3		
Spider—gumper	4	Priest—rump	19		

CASE No. 5183.—G. D. Neologisms; numerous unclassified reactions, mostly incoherent; some sound neologisms.

Table—muss	19	Needle—cast	15	Ocean—men	19
Dark—gone	19	Red—Roman	19	Head—will	19
Music—caffa	4	Sleep—scack	4	Stove—somen	4
Sickness—monk	19	Anger—gois	4	Long—lass	19
Man—boy		Carpet—noise	13	Religion—cor	4
Deep—lesson	19	Girl—call	18	Whiskey—hanrow	4
Soft—ness	4	High—hort	4	Child—vand	4
Eating—pie		Working—kaffir	19	Bitter—bike	15
Mountain—Gua	19	Sour—romerscotters	4	Hammer—hemmel	3
House—muss	15	Earth—bell	19	Thirsty—cass	4
Black—court	19	Trouble—tramine	4	City—cor	4
Mutton—beef		Soldier—gas	19	Square—malice	19
Comfort—ness	4	Cabbage—cor	4	Butter—back	19
Hand—koy	4	Hard—kalbas	4	Doctor—ness	4
Short—ness	4	Eagle—bell	15	Loud—arman	4
Fruit—dalb	4	Stomach—chenic	4	Thief—cast	15
Butterfly—flack	4	Stem—trackstar	3	Lion—loss	15
Smooth—mess	19	Lamp—loss	19	Joy—kaffir	15
Command—cork	19	Dream—melo	4	Bed—banrow	4
Chair—ness	4	Yellow—ormondo	4	Heavy—cast	15
Sweet—Bess	17	Bread—lif		Tobacco—colrow	4
Whistle—toy		Justice—quartz	19	Baby—boil	19
Woman—girl		Boy—nellan	4	Moon—padoc	4
Cold—cork	15	Light—cor	4	Scissors—kantow	4
Slow—mass	19	Health—hallenbee	4	Quiet—kilroe	4
Wish—vell	4	Bible—book		Green—graft	10
River—mouth	17	Memory—bike	19	Salt—semen	19
White—cast	17	Sheep—armen	4	Street—pess	4
Beautiful—ness	4	Bath—cor	4	King—guess	19
Window—crow	19	Cottage—callan	4	Cheese—tiffer	4
Rough—ratter	19	Swift—swar	3	Blossom—cad	19
Citizen—zide	4	Blue—blacksen	4	Afraid—mellows	10
Foot—malloy	4	Hungry—scatterbuck	4		
Spider—straw	19	Priest—canon	17		

CASE No. 1500.—D. V. Considerable number of neologisms; stereotypy manifested partly in a tendency toward frequent repetition of certain reactions but mainly in a persistent tendency to make use of the grammatical form of present participle, giving rise to numerous doubtful reactions.

Table—stand	Needle—stinging	2	Ocean—moving	2
Dark—lonesome	Red—coloring	15	Head—setting	15
Music—playing	Sleep—dreaming	18	Stove—warm .....	.....
Sickness—disease	Anger—widening	4	Long—slowly	2
Man—hiding	Carpet—cleaning .....	.....	Religion—everything	19
Deep—unreckless	Girl—pretty	1	Whiskey—burning .....	.....
Soft—beginning	High—degrace	4	Child—born .....	.....
Eating—plenty	Working—nobody	19	Bitter—taking	19
Mountain—high	Sour—holling	4	Hammer—hitting	2
House—standing	Earth—disgrace	19	Thirsty—drinking .....	.....
Black—grivelling	Trouble—plenty .....	.....	City—wellidebell	4
Mutton—plenty	Soldier—shooting	18	Square—taking	15
Comfort—laying	Cabbage—wellidebell	4	Butter—soft .....	.....
Hand—disease	Hard—caming	4	Doctor—instrument	19
Short—writing	Eagle—setting	19	Loud—speaking	2
Fruit—coming	Stomach—degrivel	4	Thief—gitting	4
Smooth—glimming	Lamp—burning .....	.....	Lion—scared	17
Command—master	Dream—walking	19	Joy—playing	2
Chair—standing	Yellow—blowing	15	Bed—laying	2
Sweet—sugar	Bread—making .....	.....	Heavy—raisen	4
Whistle—blowing	Justice—impossible	4	Tobacco—eating	19
Woman—loving	Boy—growing	2	Baby—born .....	.....
Cold—cellar	Light—stand	6	Moon—shining .....	.....
Slow—coming	Health—raising	19	Scissors—cutting .....	.....
Wish—dreaming	Bible—teaching	2	Quiet—hitting	15
River—divided	Memory—together	12	Green—landed	19
White—wall	Sheep—weeding	19	Salt—throwing	19
Beautiful—pleasant	Bath—held	19	Street—walking .....	.....
Window—breaking	Cottage—standing	2	King—tension	19
Rough—tumble	Swift—curiousable	4	Cheese—eating .....	.....
Citizen—gentleman	Blue—smooven	4	Blossom—growing	2
Foot—sweating	Hungry—uncareless	4	Afraid—nobody .....	.....
Spider—biting	Priest—going	19		

CASE No. 5138.—C. J. Unclassified reactions, mostly incoherent.

Table—tablecloth	Needle—lifter	19	Ocean—waves .....	.....
Dark—forward	Red—dove	19	Head—black .....	.....
Music—instrument	Sleep—coat	18	Stove—lid .....	.....
Sickness—fluid	Anger—smile	19	Long—short .....	.....
Man—female	Carpet—gas	19	Religion—Christian .....	.....
Deep—steep	Girl—kite	19	Whiskey—malt .....	.....
Soft—hard	High—cow	19	Child—baby .....	.....
Eating—mountain	Working—candy	19	Bitter—sweet .....	.....
Mountain—raven	Sour—peach	17	Hammer—nail .....	.....
House—shutter	Earth—balloon	19	Thirsty—water .....	.....
Black—blue	Trouble—grass	18	City—steeple	19
Mutton—beef	Soldier—brass	17	Square—marble	19
Comfort—discomfort	Cabbage—fies	19	Butter—bread .....	.....
Hand—wrist	Hard—cat	19	Doctor—aster	19
Short—tall	Eagle—negro	10	Loud—fog	19
Fruit—vegetable	Stomach—winter	19	Thief—Mary	19
Butterfly—bee	Stem—leaf .....	.....	Lion—tiger .....	.....
Smooth—rough	Lamp—cloth	19	Joy—glad .....	.....
Command—orders	Dream—slumber .....	.....	Bed—sheet .....	.....
Chair—sofa	Yellow—pink .....	.....	Heavy—light .....	.....
Sweet—sour	Bread—glass	19	Tobacco—smoke .....	.....
Whistle—fife	Justice—coal	19	Baby—powder .....	.....
Woman—girl	Boy—maid .....	.....	Moon—sky .....	.....
Cold—warm	Light—shine .....	.....	Scissors—handle .....	.....
Slow—faster	Health—pale	17	Quiet—sing	19
Wish—not	Bible—leaf .....	.....	Green—pink .....	.....
River—neck	Memory—grief	19	Salt—chimney	19
White—blue	Sheep—girafe	19	Street—block .....	.....
Beautiful—homely	Bath—soap .....	.....	King—crown .....	.....
Window—sill	Cottage—scene	19	Cheese—tea	17
Rough—paint	Swift—slow .....	.....	Blossom—leaves .....	.....
Citizen—pedestrian	Blue—piece	19	Afraid—frighten .....	.....
Foot—rose	Hungry—food .....	.....	
Spider—towel	Priest—minister .....	.....	

CASE No. 17979.—R. T. Unclassified reactions, mostly incoherent.

Table—full	19	Needle—point	15	Ocean—supply	19
Dark—coldness	2	Red—temperature	15	Head—manager	17
Music—aeronaut	19	Sleep—rest	19	Stove—shake	19
Sickness—better	19	Anger—temper	10	Long—journey	
Man—extension	19	Carpet—court	10	Religion—thought	1
Deep—electrician	19	Girl—birth	10	Whiskey—lukk	4
Soft—harden	2	High—dirt	19	Child—wish	15
Eating—stomach		Working—ease		Bitter—enmalseladiga ..	4
Mountain—Lord	19	Sour—balt	4	Hammer—efface	19
House—roof		Earth—veration	19	Thirsty—want	
Black—darkness		Trouble—business		City—comforts	15
Mutton—working	19	Soldier—obedient	2	Square—crown	19
Comfort—ahead	12	Cabbage—fell	19	Butter—flavor	15
Hand—mercury	19	Hard—solid		Doctor—dram	19
Short—have	12	Eagle—government	19	Loud—temper	15
Fruit—flavor	19	Stomach—chest		Thief—catched	2
Butterfly—plant	13	Stem—wish	19	Lion—crown	15
Smooth—level		Lamp—brilliancy	17	Joy—pleasure	1
Command—obedient		Dream—unso	4	Bed—comforts	
Chair—rest		Yellow—color		Heavy—thoughts	1
Sweet—polish	19	Bread—crust		Tobacco—changes	15
Whistle—note		Justice—truth		Baby—pleasure	1
Woman—comfort		Boy—obedient		Moon—brilliancy	2
Cold—pleasant	1	Light—heart	2	Scissors—edge	
Slow—move		Health—feeling		Quiet—baptism	19
Wish—wealth		Bible—scripture		Green—autumn	19
River—shell	19	Memory—saying	19	Salt—gather	
White—change	19	Sheep—wool	19	Street—thoroughfare	
Beautiful—sat	19	Bath—get	19	King—crown	
Window—temperature	19	Cottage—morrell	4	Cheese—flavor	15
Rough—shell	15	Swift—good	1	Blossom—wood	17
Citizen—soldier		Blue—look	19	Afraid—downhearted	17
Foot—travel		Hungry—have	12		
Spider—web		Priest—scripture	15		

CASE No. 3307.—G. F. Unclassified reactions, mostly incoherent; slight tendency to respond by sound reactions.

Table—desk		Needle—bird	18	Ocean—waves	
Dark—blue		Red—green		Head—hat	
Music—stars	18	Sleep—opening	19	Stove—blackening	2
Sickness—trees	19	Anger—angry		Long—garden	19
Man—menace	10	Carpet—stitching	19	Religion—goodness	1
Deep—soap	19	Girl—madam	17	Whiskey—Kummell	17
Soft—excited	19	High—ceiling		Child—woman	1
Eating—spelling	10	Working—easy		Bitter—coughing	19
Mountain—marbles	19	Sour—warm	19	Hammer—sofa	19
House—train	19	Earth—heaven		Thirsty—pillow	18
Black—bed	19	Trouble—astonished	19	City—united	19
Mutton—button	10	Soldier—man	1	Square—oblong	
Comfort—steak	18	Cabbage—carrot		Butter—lard	
Hand—flexible	19	Hard—softness	2	Doctor—physician	
Short—umbrella	17	Eagle—parrot		Loud—easy	
Fruit—blanket	19	Stomach—mind	19	Thief—burglar	
Butterfly—grass		Stem—stable	10	Lion—tiger	
Smooth—sheet	19	Lamp—oil		Joy—healthy	2
Command—carpet	19	Dream—awake		Bed—thread	10
Chair—store	19	Yellow—darkness	2	Heavy—gloves	17
Sweet—flower		Bread—rough	19	Tobacco—cigar	
Whistle—linen	19	Justice—male	19	Baby—hood	11
Woman—water	19	Boy—buoy	10	Moon—stars	
Cold—coal		Light—standing	19	Scissors—knife	
Slow—ferry	17	Health—very	12	Quiet—recollect	17
Wish—sample	19	Bible—ashamed	19	Green—ring	19
River—shades	19	Memory—staring	19	Salt—pencil	19
White—blue		Sheep—stock		Street—bushes	19
Beautiful—suspenders	19	Bath—sponge		King—Germany	17
Window—wood		Cottage—house		Cheese—rice	17
Rough—chisel	19	Swift—mouse	19	Blossom—pepper	19
Citizen—ruler		Blue—fall		Afraid—allspice	18
Foot—snake	19	Hungry—appetite			
Spider—fly		Priest—pastor			

A STUDY OF ASSOCIATION IN INSANITY

CASE No. 971.—O. M. Unclassified reactions, mostly incoherent.

Table—vote	19	Needle—pin		Ocean—sea
Dark—plenty	19	Red—white		Head—cranium
Music—health	19	Sleep—apple	13	Stove—soft
Sickness—fright		Anger—sour	19	Long—biles
Man—manager	10	Carpet—wool		Religion—bunion
Deep—slow	19	Girl—boy		Whiskey—vinegar
Soft—pepper	19	High—low		Child—edge
Eating—vanity	19	Working—height	13	Bitter—born
Mountain—slept	19	Sour—pitcher	19	Hammer—wood
House—courage	19	Earth—clam	19	Thirsty—cradle
Black—funeral		Trouble—necessity	9	City—flames
Mutton—age	19	Soldier—marine		Square—eating
Comfort—slide	19	Cabbage—watermelon	17	Butter—dirt
Hand—credit	19	Hard—cracker	17	Doctor—malefactor
Short—Simpson	17	Eagle—bright	19	Loud—quinine
Fruit—physician	19	Stomach—back		Thief—joy
Butterfly—torment	19	Stem—stimulant	10	Lion—sage
Smooth—button	17	Lamp—hair	19	Joy—thorn
Command—scarf	19	Dream—knees	19	Bed—draper
Chair—rage	19	Yellow—amen	12	Heavy—close
Sweet—cider	17	Bread—general	19	Tobacco—weed
Whistle—lace	19	Justice—no	2	Baby—stop
Woman—debt	19	Boy—grass	19	Moon—starch
Cold—powdery	4	Light—thought	9	Scissors—crepe
Slow—telephone	19	Health—depression	17	Quiet—bustle
Wish—regret	17	Bible—judger	4	Green—color
River—herald	19	Memory—stomach	19	Salt—throw
White—black		Sheep—crusade	19	Street—ferment
Beautiful—jolly	19	Bath—labor	19	King—jaunce
Window—pane		Cottage—cotton	10	Cheese—tepid
Rough—duty	19	Swift—depth	19	Blossom—woman
Citizen—ward	17	Blue—crimson	17	Afraid—shame
Foot—minister	19	Hungry—alloyed	19	Priest—politicians
Spider—handsome	19			

CASE No. 01655.—E. H. Unclassified reactions, mostly incoherent.

Table—cent	19	Needle—drops	15	Ocean—stop	15
Dark—sweet	19	Red—glass	17	Head—strap	19
Music—delighted	2	Sleep—suits	19	Stove—pot	17
Sickness—pop	19	Anger—suits	5	Long—name	
Man—change	19	Carpet—hat	19	Religion—day	13
Deep—pass	19	Girl—president	19	Whiskey—take	19
Soft—drop	19	High—pass	19	Child—jaw	17
Eating—fair	19	Working—knock	19	Bitter—licorice	17
Mountain—heavy	19	Sour—cake	19	Hammer—sound	
House—fate	19	Earth—home		Thirsty—cards	19
Black—right	19	Trouble—news	17	City—dice	18
Mutton—with	12	Soldier—name	19	Square—muff	19
Comfort—indeed	12	Cabbage—rule	19	Butter—stick	19
Hand—span	10	Hard—rope	19	Doctor—perfect	19
Short—stop		Eagle—in	12	Loud—walk	15
Fruit—dip	19	Stomach—potato	17	Thief—jail	
Butterfly—home	19	Stem—pick		Lion—cow	
Smooth—days	19	Lamp—berry	18	Joy—nail	19
Command—stop	15	Dream—book		Bed—new	19
Chair—pledge	19	Yellow—lettuce	19	Heavy—down	12
Sweet—right	15	Bread—chews	17	Tobacco—prize	19
Whistle—home	15	Justice—night	15	Baby—new	15
Woman—Louisa	17	Boy—bat	17	Moon—new	
Cold—chair	16	Light—rasp	19	Scissors—teach	19
Slow—aid	19	Health—off	12	Quiet—man	1
Wish—book	2	Bible—comforter	2	Green—water	17
River—shoes	19	Memory—candy	19	Salt—money	19
White—ouch	12	Sheep—eat		Street—right	15
Beautiful—not	12	Bath—sweet	19	King—girl	19
Window—papers	19	Cottage—walk	19	Cheese—house	19
Rough—lettuce	19	Swift—reason	19	Blossom—work	1
Citizen—money	17	Blue—dot	19	Afraid—jars	19
Foot—stand		Hungry—swift	16		
Spider—socks	19	Priest—birth			

CASE M. F. (from Hudson River State Hospital).—Unclassified reactions, mostly incoherent.

Table—heat .....	.19	Needle—action .....	.19	Ocean—pilot .....	.17
Dark—succeed .....	.19	Red—stout .....	.19	Head—tin .....	.19
Music—benefit .....	.19	Sleep—lazy .....	.17	Stove—plate .....	.17
Sickness—steep .....	.19	Anger—anguish .....	.19	Long—trouble .....	.19
Man—dicut .....	.4	Carpet—knowledge .....	.19	Religion—soap .....	.19
Deep—rectify .....	.19	Girl—first .....	.10	Whiskey—starch .....	.18
Soft—bed		High—hand .....	.19	Child—night .....	.19
Eating—dozy .....	.19	Working—power .....	.17	Bitter—contentment .....	.19
Mountain—tulu .....	.4	Sour—mud .....	.19	Hammer—shortness .....	.19
House—sails .....	.19	Earth—sky		Thirsty—knife .....	.19
Black—sunrise .....	.19	Trouble—sorrow		City—mind .....	.19
Mutton—tuition .....	.19	Soldier—manhood .....	.2	Square—truth .....	.2
Comfort—blasphemous .....	.19	Cabbage—righteous .....	.19	Butter—biscuit	
Hand—doing		Hard—beaten .....	.17	Doctor—piles .....	.17
Short—pest .....	.19	Eagle—dog .....	.19	Loud—distrust .....	.19
Fruit—charm .....	.19	Stomach—paste .....	.19	Thief—babies .....	.19
Butterfly—doctor .....	.19	Stem—dust .....	.10	Lion—hair	
Smooth—border .....	.19	Lamp—fall .....	.19	Joy—eyesight .....	.19
Command—right .....	.19	Dream—idle .....	.17	Bed—dievos .....	.4
Chair—distill .....	.19	Yellow—zone .....	.19	Heavy—determined .....	.19
Sweet—noticed .....	.19	Bread—pan .....	.17	Tobacco—health .....	.19
Whistle—stead .....	.19	Justice—tricks .....	.17	Baby—wood .....	.19
Woman—splice .....	.19	Boy—barrel .....	.19	Moon—heat .....	.15
Cold—strap .....	.19	Light—powers .....	.15	Scissors—squeeze .....	.19
Slow—chief .....	.19	Health—kindness .....	.19	Quiet—tears .....	.19
Wish—shame .....	.19	Bible—story		Green—fall .....	.15
River—word .....	.19	Memory—pillow .....	.19	Salt—soft .....	.10
White—color		Sheep—veil .....	.19	Street—wait .....	.19
Beautiful—better .....	.19	Bath—ink .....	.19	King—inches .....	.19
Window—dull .....	.19	Cottage—paper .....	.19	Cheese—doctor .....	.15
Rough—bright .....	.18	Swift—arrow		Blossom—fades .....	.19
Citizen—chum .....	.19	Blue—cold		Afraid—hearts .....	.2
Foot—relax .....	.19	Hungry—dyes .....	.19		
Spider—float .....	.19	Priest—cloak .....	.19		

CASE No. 01552.—E. J. D. Unclassified reactions, mostly incoherent.

Table—unicorn .....	.19	Spider—jungle .....	.19	Priest—pedestrian .....	.15
Dark—African .....	.17	Needle—man .....	.9	Ocean—commotion .....	.10
Music—love		Red—monde .....	.4	Head—sugar .....	.19
Sickness—slumber .....	.17	Sleep—resuscitation .....	.4	Stove—writer .....	.19
Man—minstrel .....	.10	Anger—uncared .....	.19	Long—mingle .....	.19
Deep—river		Carpet—foreign .....	.15	Religion—tent .....	.16
Soft—highwayman .....	.19	Girl—celt .....	.19	Whiskey—copulency .....	.4
Eating—England .....	.19	High—wine .....	.10	Child—editor .....	.19
Mountain—pleasure .....	.1	Working—prayer .....	.19	Bitter—backward .....	.19
House—Christianity .....	.19	Sour—flower .....	.10	Hammer—youth .....	.19
Black—directory .....	.19	Earth—tariff .....	.19	Thirsty—salt .....	.17
Mutton—capers		Trouble—ledger .....	.19	City—gentier .....	.19
Comfort—mankind .....	.12	Soldier—work .....	.1	Square—angelus .....	.19
Hand—surface .....	.19	Cabbage—ancient .....	.19	Butter—pastry .....	.17
Short—court .....	.10	Hard—provender .....	.19	Doctor—veterinary .....	.17
Fruit—pleasure .....	.1	Eagle—school .....	.19	Loud—muslin .....	.19
Butterfly—dispatcher .....	.19	Stomach—bowels		Thief—grocer .....	.19
Smooth—navigation .....	.19	Stem—tide		Lion—trip .....	.19
Command—		Lamp—scientific .....	.19	Joy—penance .....	.17
administration .....	.19	Dream—sonno .....	.4	Bed—granite .....	.19
Chair—time .....	.19	Yellow—pain .....	.19	Heavy—note .....	.19
Sweet—office .....	.13	Bread—populous .....	.19	Tobacco—vanese .....	.4
Whistle—foreign .....	.19	Justice—thwart .....	.19	Baby—school .....	.15
Woman—usefulness .....	.1	Boy—globe .....	.19	Moon—element .....	.19
Cold—frigid		Light—female .....	.18	Scissors—elderly .....	.19
Slow—vocation .....	.19	Health—linen .....	.19	Quiet—trinity .....	.19
Wish—longing		Bible—divine .....	.17	Green—commissioner .....	.19
River—tributary .....	.17	Memory—current .....	.19	Salt—strength .....	.19
White—island .....	.13	Sheep—water		Street—voyager .....	.19
Beautiful—unseen .....	.19	Bath—rain .....	.18	King—sorrow .....	.19
Window—frugal .....	.19	Cottage—journal .....	.19	Cheese—holiday .....	.19
Rough—nautical .....	.19	Swift—yacht .....	.17	Blossom—parks .....	.19
Citizen—pedestrian .....	.19	Blue—novel .....	.19	Afraid—stamina .....	.17
Foot—laugh .....	.19	Hungry—viand .....	.2		

CASE No. 667.—C. L. Pronounced stereotypy. Following note on test record: "Many attempts were made to secure a reaction other than 'cat,' but usually without success; the reaction *cold-warm* was given spontaneously and with apparent interest; most reactions were given only in response to much urging, or else mechanically, without attention."

Table—cat	6	Needle—cat	6	Ocean—cat	5
Dark—rat	18	Red—button	15	Head—cat	5
Music—shoe	19	Sleep—cat	6	Stove—cat	5
Sickness—cat	6	Anger—go	15	Long—cat	5
Man—boy .....	.....	Carpet—cat	6	Religion—cat	5
Deep—cat	6	Girl—in	12	Whiskey—cat	5
Soft—hat	19	High—little	19	Child—cat	5
Eating—cat	6	Working—cold	19	Bitter—cat	5
Mountain—hit	19	Sour—cat	6	Hammer—cat	5
House—gold	19	Earth—tag	19	Thirsty—cat	5
Black—woman	9	Trouble—cat	6	City—cat	5
Mutton—get	19	Soldier—cat	5	Square—cat	5
Comfort—cousin	19	Cabbage—cat	5	Butter—cat	5
Hand—Jesus	19	Hard—cat	5	Doctor—cat	5
Short—hat	15	Eagle—cat	5	Loud—cat	5
Fruit—hand	16	Stomach—cat .....	.....	Thief—cat	5
Butterfly—going	19	Stem—hat	15	Lion—cat	5
Smooth—hat	15	Lamp—cat	6	Joy—cat	5
Command—boy .....	.....	Dream—cat	5	Bed—cat	5
Chair—hat	15	Yellow—cat .....	.....	Heavy—cat	5
Sweet—cat	6	Bread—cat	5	Tobacco—cat	5
Whistle—boy .....	.....	Justice—cat	5	Baby—cat	5
Woman—cat .....	.....	Boy—cat	5	Moon—cat	5
Cold—warm .....	.....	Light—cat	5	Scissors—cat	5
Slow—button	19	Health—cat	5	Quiet—cat	5
Wish—cat	6	Bible—cat	5	Green—cat	5
River—cat	5	Memory—cat	5	Salt—cat	5
White—rat	15	Sheep—cat	5	Street—cat	5
Beautiful—good	1	Bath—cat	5	King—cat	5
Window—wheel	19	Cottage—cat	5	Cheese—cat	5
Rough—good	9	Swift—cat	5	Blossom—cat	5
Citizen—candy	19	Blue—cat	5	Afraid—cat .....	.....
Foot—cat	6	Hungry—cat	5	Priest—cat	5
Spider—dog	19				

CASE No. 6006.—E. T. S. Stereotypy.

Table—eat	19	Needle—needed	5	Ocean—fresh	19
Dark—unkindness	1	Red—beautiful	2	Head—unhealthy	15
Music—beautiful	1	Sleep—beautiful	1	Stove—warmth .....	.....
Sickness—suffering .....	.....	Anger—needed	6	Long—length .....	.....
Man—good	1	Carpet—needed	5	Religion—needed	2
Deep—unkindness	15	Girl—needed	5	Whiskey—needed	5
Soft—unkindness	5	High—height .....	.....	Child—needed .....	.....
Eating—digesting .....	.....	Working—needed	6	Bitter—needed	5
Mountain—low .....	.....	Sour—needed	5	Hammer—needed	5
House—small	1	Earth—needed	5	Thirsty—water .....	.....
Black—darkness .....	.....	Trouble—trust	10	City—pretty	6
Mutton—good	1	Soldier—needed	6	Square—honest .....	.....
Comfort—home .....	.....	Cabbage—needed	5	Butter—good	1
Hand—useful	1	Hard—trouble .....	.....	Doctor—needed .....	.....
Short—useful	5	Eagle—beautiful	6	Loud—needed	5
Fruit—healthy .....	.....	Stomach—trouble .....	.....	Thief—trust .....	.....
Butterfly—beautiful	1	Stem—shoot	10	Lion—love	19
Smooth—unkindness	15	Lamp—light .....	.....	Joy—laughter .....	.....
Command—great	9	Dream—pleasant	1	Bed—comfortable .....	.....
Chair—useful	1	Yellow—pretty	1	Heavy—sleepiness	2
Sweet—healthy	15	Bread—good	1	Tobacco—needed	6
Whistle—beautiful	6	Justice—needed	6	Baby—needed	5
Woman—good	1	Boy—needed	5	Moon—needed	5
Cold—unhealthy	19	Light—pretty	6	Scissors—needed	5
Slow—good	6	Health—needed .....	.....	Quiet—pleasure	1
Wish—always	12	Bible—needed	5	Green—me	19
River—needed	6	Memory—needed	2	Salt—needed .....	.....
White—pretty	1	Sheep—needed	5	Street—needed	5
Beautiful—tree .....	.....	Bath—needed	5	King—needed	5
Window—needed	6	Cottage—needed	5	Cheese—needed	5
Rough—unneeded	4	Swift—needed	5	Blossom—needed	5
Citizen—needed	6	Blue—pretty	1	Afraid—nervous .....	.....
Foot—needed	2	Hungry—food .....	.....	Priest—Father .....	.....
Spider—needed	5				

CASE No. 2292.—C. M. Perseveration: numerous instances of association to preceding reaction; unclassified reactions, mostly incoherent.

Table-tree	19	Needle-thread	18	Ocean-turnip	18
Dark-night		Red-sew	18	Head-hair	
Music-instrument		Sleep-rest		Stove-coal	
Sickness-smoke	19	Anger-health	18	Long-wood	18
Man-woman	1	Carpet-carrots	10	Religion-lemon	10
Deep-water		Girl-eat	19	Whiskey-wheat	17
Soft-tide	18	High-horse	19	Child-rye	18
Eating-potato		Working-hay	15	Bitter-medicine	
Mountain-milk	13	Sour-cut	19	Hammer-nail	
House-clay	17	Earth-machine	19	Thirsty-beer	
Black-polish	17	Trouble-repair	18	City-cake	19
Mutton-goat		Soldier-mow	19	Square-pie	18
Comfort-cream	10	Cabbage-plant		Butter-cream	
Hand-hay	19	Hard-seed	18	Doctor-herb	19
Short-meat	19	Eagle-bird		Loud-duck	19
Fruit-pears		Stomach-egg	17	Thief-feathers	18
Butterfly-flower		Stem-join		Lion-animal	
Smooth-smell	10	Lamp-oil		Joy-peace	
Command-drink	19	Dream-burn	13	Bed-sleep	
Chair-wine	18	Yellow-gas	18	Heavy-rest	18
Sweet-honey		Bread-flour		Tobacco-chew	
Whistle-wind		Justice-drink	19	Baby-chair	19
Woman-whiskey	19	Boy-girl		Moon-sun	
Cold-fire		Light-man	9	Scissors-cut	
Slow-speed		Health-woman	1	Quiet-hair	18
Wish-go		Bible-baby	10	Green-grapes	
River-boat		Memory-want	19	Salt-bag	19
White-stem	18	Sheep-lamb		Street-stone	
Beautiful-cloak	17	Bath-water		King-cement	18
Window-drift	19	Cottage-hay	15	Cheese-money	19
Rough-storm		Swift-corn	18	Blossom-flower	
Citizen-citron	10	Blue-eat	18	Afraid-fast	19
Foot-feed	19	Hungry-ham	17		
Spider-web		Priest-pickle	18		

CASE No. 17880.—E. D. Numerous repetitions of reactions previously given; unclassified reactions, mostly incoherent; neologisms.

Table-eating		Needle-clothing	2	Ocean-help	6
Dark-night		Red-color		Head-knowing	2
Music-piano		Sleep-stoppery	4	Stove-cooking	
Sickness-stoppery	4	Anger-unguarded	17	Long-bank	19
Man-manly		Carpet-residence	15	Religion-church	
Deep-knowing	6	Girl-help	6	Whiskey-drink	
Soft-undoable	4	High-escorted	6	Child-help	6
Eating-oblong	19	Working-man	1	Bitter-error	16
Mountain-guide	19	Sour-form	15	Hammer-builder	2
House-residing	2	Earth-platformer	4	Thirsty-drink	
Black-dress		Trouble-unguarded	15	City-building	
Mutton-aiding	19	Soldier-sentinel	2	Square-unerrorer	4
Comfort-escorted	6	Cabbage-dinners	2	Butter-eating	
Hand-escorted	5	Hard-escorted	6	Doctor-destroyer	10
Short-unescorted	18	Eagle-newspaper	17	Loud-notoriety	17
Fruit-eating		Stomach-health		Thief-error	15
Butterfly-interfere	19	Stem-winding		Lion-lord	19
Smooth-knowing	6	Lamp-reading		Joy-escorted	6
Command-unerrorer		Dream-guarded	19	Bed-unescorted	15
Chair-seated		Yellow-aged	19	Heavy-unescorted	5
Sweet-durable	19	Bread-knowing	6	Tobacco-chewing	
Whistle-treated	19	Justice-bar	17	Baby-help	6
Woman-help	2	Boy-help	6	Moon-knowing	6
Cold-stoppery	4	Light-advice	19	Scissors-tailor	
Slow-unknowing	4	Health-doableness	4	Quiet-form	15
Wish-treated	15	Bible-church		Green-moneyed	19
River-boats		Memory-knowing	2	Salt-eating	
White-treasurer	19	Sheep-aided	15	Street-city	
Beautiful-form		Bath-stoppery	4	King-adds	19
Window-outlook		Cottage-seashore		Cheese-eating	
Rough-unescorted	15	Swift-business	17	Blossom-escorted	6
Citizen-residing	2	Blue-help	6	Afraid-unguarded	15
Foot-travel		Hungry-unadded	4		
Spider-stoppery	4	Priest-Rome	19		

CASE No. 6065.—A. F. Unclassified reactions, mostly incoherent; perseveration: instances of association to preceding reaction and to preceding stimulus.

Table—stove	19	Needle—pins	9	Ocean—ship	
Dark—clear	19	Red—person	9	Head—height	2
Music—calm	19	Sleep—nervous	17	Stove—people	9
Sickness—exact	19	Anger—determined	15	Long—heart	15
Man—particular	18	Carpet—floor	9	Religion—Catholic	
Deep—personal	18	Girl—man	1	Whiskey—Brooklyn	
Soft—frank	19	High—fruit	10	Child—New York	18
Eating—determined	19	Working—wear	10	Bitter—frost	19
Mountain—idea	19	Sour—sweet	9	Hammer—summer	10
House—street		Earth—early	10	Thirsty—fall	18
Black—water		Trouble—state	10	City—autumn	18
Mutton—ground	19	Soldier—girl	18	Square—winter	18
Comfort—country	18	Cabbage—woman	9	Butter—daily	18
Hand—fire	19	Hard—heart	9	Doctor—midnight	19
Short—straight	10	Eagle—bird	9	Loud—forenoon	18
Fruit—flowers		Stormach—friend	19	Thief—afternoon	18
Butterfly—horn	19	Stem—tree	19	Lion—evening	18
Smooth—farm	19	Lamp—couch	19	Joy—sorrow	18
Command—forbidden	2	Dream—desk	19	Bed—obstinate	19
Chair—bed		Yellow—table	9	Heavy—indifferent	19
Sweet—sugar		Bread—chair	14	Tobacco—pipe	
Whistle—noise		Justice—truth		Baby—mother	
Woman—boy		Boy—honor	18	Moon—daughter	18
Cold—house	18	Light—talis	19	Scissors—son	18
Slow—store	14	Health—care		Quiet—sister	18
Wish—work	19	Bible—book		Green—brother	18
River—sound	17	Memory—remembrance		Salt—forward	19
White—blue		Sheep—free	19	Street—proper	19
Beautiful—fair		Bath—court	19	King—vulgar	18
Window—door		Cottage—pitcher	19	Cheese—personal	15
Rough—glass	18	Swift—strong		Blossom—tree	
Citizen—dress	19	Blue—delicate	18	Afraid—fear	
Foot—exact	15	Hungry—bread		Priest—church	
Spider—fly					

CASE No. 17188.—G. B. Sound reactions; unclassified reactions, mostly incoherent.

Table—tablet	10	Needle—shoe	10	Ocean—hat	15
Dark—dot	10	Red—book	10	Head—broom	19
Music—Lizzie	19	Sleep—sifting	10	Stove—fan	
Sickness—Joh	17	Anger—Freeman	19	Long—time	
Man—McMahon	10	Carpet—longing	19	Religion—Yukon	19
Deep—deaf (def)	10	Girl—gone	19	Whiskey—Freeman	15
Soft—sulphur	10	High—law	10	Child—Hopkins	17
Eating—itching	10	Working—hack	15	Bitter—brown	19
Mountain—mouth	10	Sour—clock	10	Hammer—hands	19
House—horse	10	Earth—flower		Thirsty—thirty	18
Black—back	10	Trouble—sensibility	17	City—sure	19
Mutton—button	10	Soldier—sodder	10	Square—square	10
Comfort—community	10	Cabbage—Cabot	10	Butter—Tam O'Shanter	10
Hand—hat	10	Hard—done	2	Doctor—Dorsan	10
Short—shore	10	Eagle—time	10	Loud—law	15
Fruit—Freehof	10	Stomach—mat	10	Thief—child	19
Butterfly—busty	3	Stem—water		Lion—dirty	19
Smooth—small	1	Lamp—florist	10	Joy—commerce	19
Command—Cummings	10	Dream—Connors	10	Bed—strike	19
Chair—cherries	10	Yellow—flower		Heavy—Walden	19
Sweet—sweeten	8	Bread—water		Tobaccon—Alice	19
Whistle—Walters	19	Justice—Gaylor	17	Baby—water	15
Woman—wayman	10	Boy—passion	10	Moon—handsome	19
Cold—laboratory	19	Light—life		Scissors—comet	19
Slow—slaw	10	Health—wealth		Quiet—tiger	19
Wish—wishes		Bible—gone	10	Green tree	
River—Ontario	17	Memory—Hans	10	Salt—salary	10
White—William	10	Sheep—pasture		Street—prunes	19
Beautiful—bureau	10	Bath—Rogan	10	King—kind	19
Window—Weldon	10	Cottage—house		Cheese—handsome	15
Rough—saw	17	Swift—swim	10	Blossom—pretty	1
Citizen—Sandow	17	Blue—Thompson	10	Afraid—Africa	10
Foot—hoof	17	Hungry—memory	10		
Spider—web		Priest—golden	10		

CASE No. 6238.—M. H. Sound reactions; unclassified reactions, mostly incoherent.

Table—token	19	Needle—nothing	18	Ocean—open	10
Dark—dye	17	Red—rose	19	Head—heart .....	.....
Music—meat	10	Sleep—should	12	Stove—steel .....	.....
Sickness—sorrow .....	.....	Anger—after	10	Long—little	15
Man—mother	17	Carpet—cat	10	Religion—right .....	.....
Deep—dark .....	.....	Girl—God	19	Whiskey—when	12
Soft—silk .....	.....	High—heaven .....	.....	Child—chimney	19
Eating—elephant	19	Working—will	2	Bitter—both	19
Mountain—many	10	Sour—sweet .....	.....	Hammer—heart	15
House—home .....	.....	Earth—eaten	14	Thirsty—think	9
Black—brown .....	.....	Trouble—tea	10	City—church	17
Mutton—men	10	Soldier—sailor .....	.....	Square—swift	19
Comfort—cat	10	Cabbage—cobweb	19	Butter—bread .....	.....
Hand—hat	10	Hard—haven't	12	Doctor—debtor	10
Short—shift	10	Eagle—eaten	15	Loud—loaf	19
Fruit—free	10	Stomach—sat	10	Thief—theatre	10
Butterfly—baby	19	Stem—should	12	Lion—liar	10
Smooth—soft .....	.....	Lamp—little	19	Joy—jam	19
Command—cat	10	Dream—did	12	Bed—broom	19
Chair—comfort .....	.....	Yellow—you	10	Heavy—hard .....	.....
Sweet—sugar .....	.....	Bread—butter .....	.....	Tobacco—Tom	19
Whistle—wine	19	Justice—Jesus	10	Baby—brother	17
Woman—when	10	Boy—baby .....	.....	Moon—men	2
Cold—cat	15	Light—love	14	Scissors—shift	10
Slow—short .....	.....	Health—heaven .....	.....	Quiet—quilt	10
Wish—when	12	Bible—bitch	19	Green—grass .....	.....
River—Rhine .....	.....	Memory—man	1	Salt—said	19
White—when	10	Sheep—shepherd .....	.....	Street—Stevens	10
Beautiful—baby .....	.....	Bath—both	10	King—kite	19
Window—wide .....	.....	Cottage—cat	10	Cheese—cat	15
Rough—red	19	Swift—said	19	Blossom—bad	9
Citizen—company	19	Blue—bad	9	Afraid—anger .....	.....
Foot—feeling	19	Hungry—haven't	12	Priest—Pope .....	.....
Spider—speck	10				

CASE No. 12720.—J. B. Unclassified reactions, many of which are probably due to distraction; some stereotypy. Note on test record states: "Influenced by sensory impressions, but gave good attention to each stimulus word. Had some difficulty in limiting his response to one word, but made all possible effort to comply with every request. On one occasion he was asked to react with his eyes closed, but was unable, under the unnatural conditions, to respond with one word."

Table—floor .....	.....	Needle—name	19	Ocean—flag	15
Dark—light .....	.....	Red—sunlight	19	Head—cabbage .....	.....
Music—shoe	19	Sleep—flag	18	Stove—rivet	17
Sickness—well .....	.....	Anger—slant	19	Long—floor	19
Man—boy .....	.....	Carpet—rip	19	Religion—priest .....	.....
Deep—sea .....	.....	Girl—lady .....	.....	Whiskey—tin	19
Soft—soap .....	.....	High—stripe	19	Child—shadow	6
Eating—tea	17	Working—steam	17	Bitter—black	15
Mountain—forest	17	Sour—handkerchief	19	Hammer—buttons	15
House—horse	10	Earth—ground .....	.....	Thirsty—shadow	6
Black—sill	19	Trouble—insect	19	City—back	15
Mutton—tablecloth	17	Soldier—army .....	.....	Square—oval .....	.....
Comfort—black	16	Cabbage—sill	15	Butter—table .....	.....
Hand—fingers .....	.....	Hard—washstand	19	Doctor—doorway	10
Short—wrist	13	Eagle—blue	15	Loud—shadow	6
Fruit—soup	17	Stomach—tap	19	Thief—butter	16
Butterfly—grape	13	Stem—sill	15	Lion—difference	19
Smooth—coat .....	.....	Lamp—back	19	Joy—ink	15
Command—vest	18	Dream—shadow	2	Bed—butter	15
Chair—pillow	19	Yellow—blanket	19	Heavy—shadow	6
Sweet—brick	19	Bread—horizontal	19	Tobacco—wood	13
Whistle—knuckles	19	Justice—ink	19	Boy—wall	15
Woman—wall	19	Boy—taste	19	Moon—lightning	17
Cold—eating	19	Light—yellow .....	.....	Scissors—book	15
Slow—swift .....	.....	Health—book	19	Quiet—yellow	15
Wish—knob	19	Bible—Joseph	17	Green—sole	19
River—pad	19	Memory—Joe	18	Salt—ink	15
White—book	19	Sheep—pillow	19	Street—sides	19
Beautiful—shadow	6	Bath—Mott	19	King—stripes .....	.....
Window—stockings	19	Cottage—globe	19	Cheese—butter .....	.....
Rough—stand	19	Swift—continue	19	Blossom—trees .....	.....
Citizen—blue	19	Blue—notice	19	Afraid—boy .....	.....
Foot—brass	19	Hungry—Josephine	19		
Spider—shoelace	19	Priest—sixteen	12		

CASE No. 5374.—J. F. Perseveration; some stereotypy; sound reactions; unclassified reactions many of which are probably due to distraction. Note on test record states: "Understood what was expected, but could not be induced to give much attention to the stimulus words; sat facing a window, and showed a strong tendency to merely name objects in sight. Reaction time very short, in some cases so short that it is doubtful if he recognized the stimulus word at all."

Table—God	19	Needle—pin	18	Ocean—preacher	18
Dark—angel	18	Red—cushion	18	Head—dead	10
Music—bird		Sleep—black	18	Stove—store	10
Sickness—woman	9	Anger—white	14	Long—lone	10
Man—male		Carpet—vignency	4	Religion—world	19
Deep—dove	19	Girl—noodles	10	Whiskey—whisper	10
Soft—dog	19	High—macaroni	18	Child—gule	4
Eating—horse	18	Working—tomatoes	18	Bitter—Rugby	19
Mountain—mule	18	Sour—asparagus	18	Hammer—ball	18
House—dog		Earth—oakry	4	Thirsty—sun	19
Black—rabbit	18	Trouble—peas	19	City—Christ	10
Mutton—hen	18	Soldier—beans	18	Square—Jesus	18
Comfort—dog	15	Cabbage—greens		Butter—Joe	19
Hand—clock		Hard—cow	19	Doctor—John	17
Short—myself		Eagle—robin		Loud—Luke	18
Fruit—post	19	Stomach—hawk	18	Thief—St. Matthew	18
Butterfly—bricks	19	Stem—fishes	19	Lion—lie	10
Smooth—glass		Lamp—whale	18	Joy—George	10
Command—sand	10	Dream—shark	18	Bed—Beth	10
Chair—leaf	19	Yellow—crabs	18	Heavy—titther	4
Sweet—wood	19	Bread—red	10	Tobacco—iron	18
Whistle—earth	19	Justice—jam	19	Baby—blade	10
Woman—grass	14	Boy—he	2	Moon—stars	
Cold—mustard	19	Light—girl	13	Scissors—sun	18
Slow—kale	19	Health—filth	10	Quiet—wired	10
Wish—lampsquob	4	Bible—book		Green—mean	10
River—ten	12	Memory—bad	1	Salt—Lou	19
White—rock	17	Sheep—dat	4	Street—vault	19
Beautiful—water	17	Bath—oval	19	King—sepulchre	18
Window—scene		Cottage—nurse	19	Cheese—Presbyterian	19
Rough—bean	12	Swift—begin	19	Blossom—Baptist	18
Citizen—house	13	Blue—joy	19	Afraid—Methodist	18
Foot—stable	2	Hungry—wonder	10		
Spider—horse	13	Priest—apostle	17		

CASE No. 1431.—A. L. Sound reactions; particles; unclassified reactions, mostly incoherent.

Table—ammitting	4	Needle—Hercules	19	Ocean—river	18
Dark—cat		Red—green		Head—sea	19
Music—hello	12	Sleep—deep		Stove—Venus	19
Sickness—spelling	19	Anger—grief		Long—hog	19
Man—then	12	Carpet—cheap	19	Religion—pigeon	10
Deep—heap	10	Girl—ink	19	Whiskey—gin	
Soft—deep	7	High—I	10	Child—thing	19
Eating—people	1	Working—loafing		Bitter—better	10
Mountain—striking	19	Sour—hour	10	Hammer—happy	9
House—pat	19	Earth—hurt	10	Thirsty—whiskey	17
Black—and	12	Trouble—bubble	10	City—fitting	10
Mutton—it	12	Soldier—yes	12	Square—round	
Comfort—herself	12	Cabbage—garbage	10	Butter—shut	10
Hand—self	19	Hard—hitting	17	Doctor—exercise	19
Short—length		Eagle—fitting	19	Loud—accounts	10
Fruit—long	13	Stomach—pitting	19	Thief—endless	19
Butterfly—quick	19	Stem—condemned	10	Lion—tiger	
Smooth—edges	19	Lamp—stamp	10	Joy—fast	19
Command—first	17	Dream—stained	19	Bed—grass	19
Chair—exact	19	Yellow—purple		Heavy—heaving	10
Sweet—nicest	2	Bread—pimple	19	Tobacco—queen	19
Whistle—thistle	10	Justice—suit	17	Baby—water	19
Woman—pins	19	Boy—ahoy	12	Moon—room	19
Cold—waving	19	Light—night		Scissors—pants	17
Slow—swift		Health—wealth		Quiet—razor	18
Wish—choice	17	Bible—indeed	12	Green—steel	18
River—never	10	Memory—remembering		Salt—sharp	
White—black		Sheep—cow		Street—fence	19
Beautiful—much	19	Bath—sponge		King—bring	10
Window—such	19	Cottage—people	1	Cheese—eggs	
Rough—exact	15	Swift—left	10	Blossom—see	19
Citizen—just		Blue—shift	19	Afraid—awaiting	19
Foot—root	10	Hungry—property	19		
Spider—diving	19	Priest—judge	2		

CASE No. 6251.—C. D. Some stereotypy; particles; unclassified reactions, mostly incoherent.

Table—doctor	19	Needle—ether	19	Ocean—land
Dark—nigger	17	Red—pot		Head—millionaire
Music—violin		Sleep—wake		Stove—twenty-five
Sickness—whores	19	Anger—mad		Long—thirty-four
Man—Mulcane	17	Carpet—pretty	1	Religion—churches
Deep—deaf	19	Girl—boy		Whiskey—plenty
Soft—hearing	18	High—Heidel	10	Child—baby
Eating—pillow	13	Working—never		Bitter—sorrow
Mountain—sight	19	Sour—sweet		Hammer—court
House—pure	19	Earth—bride	19	Thirsty—blood
Black—nigger		Trouble—mischief		City—this
Mutton—plenty	6	Soldier—war		Square—I
Comfort—middle	19	Cabbage—head		Butter—plenty
Hand—left	17	Hard—never	6	Doctor—millionaire
Short—one	12	Eagle—fly		Loud—tell
Fruit—up	12	Stomach—go	19	Thief—rich
Butterfly—bird		Stem—study	10	Lion—west
Smooth—never	6	Lamp—light		Joy—ever
Command—commodore	10	Dream—behave	19	Bed—Constance
Chair—seat		Yellow—false	19	Heavy—fine
Sweet—sugar		Bread—plenty	6	Tobacco—back
Whistle—highest	19	Justice—just		Baby—millionaire
Woman—Constance	17	Boy—come	19	Moon—always
Cold—temperature		Light—Davie	19	Scissors—large
Slow—walk		Health—wealth		Quiet—stay
Wish—wishes		Bible—Constance	15	Green—flowers
River—love	19	Memory—fine	1	Salt—perfume
White—Dr. White	17	Sheep—plenty	6	Street—floor
Beautiful—pretty	1	Bath—bother	10	King—Haaken
Window—dove	19	Cottage—mansion		Cheese—kiss
Rough—fine	1	Swift—hurry		Blossom—flower
Citizen—United States		Blue—flowers	2	Afraid—never
Foot—left	15	Hungry—never		
Spider—web		Priest—highest	2	

CASE No. 17607.—P. D. Test record somewhat approaching the normal: 24 individual reactions, of which 16 are unclassified, mostly "far fetched" and not strictly incoherent. Patient is a well-marked case of dementia praecox but only moderately deteriorated; works well at the hospital.

Table—oak		Needle—steel		Ocean—Atlantic
Dark—brown		Red—color		Head—stature
Music—falsetto	17	Sleep—slumber		Stove—iron
Sickness—typhoid		Anger—aroused		Long—inches
Man—gender	19	Carpet—texture	2	Religion—creed
Deep—feet	19	Girl—female		Whiskey—hope
Soft—feeling		High—up		Child—neuter
Eating—partaking	19	Working—doing		Bitter—horehound
Mountain—hunter	19	Sour—lemon		Hammer—steel
House—dwelling		Earth—dirt		Thirsty—degree
Black—color		Trouble—distress		City—population
Mutton—sheep		Soldier—uniform		Square—sides
Comfort—coziness	2	Cabbage—crop	19	Butter—cream
Hand—anatomy		Hard—metal		Doctor—physician
Short—stature		Eagle—bird		Loud—noise
Fruit—apples		Stomach—anatomy		Thief—characterization
Butterfly—insect		Stem—pipe		Lion—menagerie
Smooth—plain		Lamp—glass		Joy—openness
Command—order		Dream—atmosphere	19	Bed—furniture
Chair—furniture		Yellow—color		Heavy—weight
Sweet—sugar		Bread—flour		Tobacco—plant
Whistle—steam		Justice—equality		Baby—egg
Woman—sex		Boy—male		Moon—astronomy
Cold—degree		Light—sun		Scissors—blades
Slow—speedless		Health—color		Quiet—noiseless
Wish—expression		Bible—nonsense	19	Green—Paris
River—Amazon		Memory—retentiveness	2	Salt—crystal
White—pulp	17	Sheep—quadruped		Street—lane
Beautiful—description		Bath—water		King—usurper
Window—opaque	19	Cottage—stories	19	Cheese—milk
Rough—uncouth		Swift—speed		Blossom—bud
Citizen—qualification	19	Blue—navy		Afraid—scared
Foot—anatomy		Hungry—appetite		
Spider—bug		Priest—uniform	15	

CASE No. 5537.—J. H. Test record approaching the normal: 21 individual reactions, 8 classed as normal, 1 non-specific, 12 unclassified, mostly "far fetched" but not strictly incoherent. Well-marked dementia præcox, but of recent origin and but slight deterioration.

Table—eat	Needle—sew	Ocean—commerce	
Dark—night	Red—marine	19	
Music—pleasure	Sleep—repose	1	
Sickness—suffering	Anger—assault	17	
Man—farmer	Carpet—cloth		
Deep—low	Girl—sister		
Soft—hard	High—above		
Eating—life	Working—labor		
Mountain—earth	Sour—bitter		
House—dwelling	Earth—farm		
Black—color	Trouble—fight		
Mutton—food	Soldier—duty		
Comfort—rest	Cabbage—vegetable		
Hand—limb	Hard—stone		
Short—small	Eagle—large	1	
Fruit—nourishing	Stomach—body		
Butterfly—flower	Stem—leaf		
Smooth—straight	Lamp—light		
Command—obey	Dream—unconsciousness		
Chair—furniture	Yellow—flag		
Sweet—palate	Bread—hunger		
Whistle—noise	Justice—freedom		
Woman—marriage	Boy—school		
Cold—indisposed	Light—electricity		
Slow—wary	Health—business	19	
Wish—work	Bible—religion		
River—tug	Memory—brain		
White—sheets	Sheep—pasture		
Beautiful—rare	Bath—clean		
Window—ventilation	Cottage—property	17	
Rough—uneven	Swift—current		
Citizen—public	Blue—uniform	17	
Foot—wall	Hungry—appetite		
Spider—web	Priest—church		
		Ocean—commerce	
		Head—thought	
		Stove—iron	
		Long—distance	
		Religion—belief	
		Whiskey—alcohol	
		Child—parent	
		Bitter—taste	
		Hammer—trade	
		Thirsty—beverage	
		City—position	19
		Square—block	
		Butter—yellow	
		Doctor—profession	
		Loud—fiddle	
		Thief—police	
		Lion—Africa	
		Joy—sensation	
		Red—rest	
		Heavy—burden	
		Tobacco—store	
		Baby—care	
		Moon—atmosphere	
		Scissors—dressmaker	
		Quiet—loneness	
		Green—color	
		Salt—house	19
		Street—neighborhood	
		King—beast	19
		Cheese—merchant	19
		Blossom—flowers	
		Afraid—train	10

CASE No. 6190.—L. L. Test record not distinguishable from normal.
Case of recent onset, with little, if any deterioration.

Table—chair	Needle—cotton	Ocean—ships
Dark—light	Red—brick	Head—mind
Music—note	Sleep—night	Stove—chimney
Sickness—health	Anger—joy	Long—wind
Man—woman	Carpet—cloth	Religion—God
Deep—shallow	Girl—mouth	Whiskey—alcohol
Soft—hard	High—low	Child—mother
Eating—breakfast	Working—idle	Bitter—fruit
Mountain—rock	Sour—vinegar	Hammer—nails
House—chimney	Earth—round	Thirsty—water
Black—white	Trouble—sickness	City—cars
Mutton—animal	Soldier—gun	Square—angles
Comfort—chair	Cabbage—garden	Butter—cow
Hand—foot	Hard—rock	Doctor—sickness
Short—long	Eagle—fly	Loud—noise
Fruit—ripe	Stomach—man	Thief—sinner
Butterfly—Melsa	Stem—watch	Lion—jungle
Smooth—hard	Lamp—oil	Joy—gladness
Command—army	Dream—sleep	Red—pillow
Chair—straw	Yellow—sunflower	Heavy—iron
Sweet—bitter	Bread—butter	Tobacco—leaf
Whistle—engine	Justice—peace	Baby—mother
Woman—man	Boy—girl	Moon—stars
Cold—hot	Light—window	Belmore—thread
Slow—fast	Health—man	Quiet—room
Wish—desire	Bible—God	Green—grass
River—brook	Memory—mind	Salt—ocean
White—black	Sheep—pasture	Street—men
Beautiful—girl	Bath—water	King—queen
Window—glass	Cottage—trees	Cheese—butter
Rough—smooth	Swift—engine	Blossom—bud
Citizen—city	Blue—sky	Afraid—coward
Foot—ankle	Hungry—bread	
Spider—web	Priest—church	

CASE No. 1278.—B. B. Test record not distinguishable from normal. Case of several years standing, but showing almost complete remission of all symptoms.

Table—chair	Needle—thread	Ocean—sea
Dark—day	Red—white	Head—body
Music—instrument	Sleep—slumber	Stove—iron
Sickness—health	Anger—kindness	Long—length
Man—woman	Carpet—mat	Religion—too
Deep—thoughts	Girl—boy	Whiskey—drink
Soft—apple	High—short	Child—baby
Eating—food	Working—idle	Bitter—taste
Mountain—rock	Sour—sweet	Hammer—nails
House—building	Earth—land	Thirsty—drink
Black—dark	Trouble—sorrow	City—town
Mutton—meat	Soldier—hero	Square—man
Comfort—home	Cabbage—turnip	Butter—bread
Hand—from	Hard—soft	Doctor—patient
Short—stout	Eagle—owl	Loud—howl
Fruit—eating	Stomach—head	Thief—steal
Butterfly—bird	Stem—pipe	Lion—bear
Smooth—glossy	Lamp—cover	Joy—happiness
Command—general	Dream—sleep	Bed—blanket
Chair—floor	Yellow—brown	Heavy—weight
Sweet—taste	Bread—biscuit	Tobacco—smoke
Whistle—tune	Justice—peaceful	Baby—cradle
Woman—man	Boy—girl	Moon—sun
Cold—chilly	Light—dark	Scissors—thimble
Slow—fast	Health—well	Quiet—stillness
Wish—something	Bible—book	Green—plaid
River—water	Memory—lost	Salt—pepper
White—black	Sheep—animal	Street—sidewalk
Beautiful—pretty	Bath—wash	King—queen
Window—pane	Cottage—house	Cheese—crackers
Rough—ugly	Swift—movements	Blossom—leaf
Citizen—papers	Blue—red	Afraid—frightened
Foot—shoe	Hungry—thirst	
Spider—bug	Friat—minister	

PARANOIC CONDITIONS.

The clinical group of psychoses included under the designation paranoic conditions is far from being homogeneous. We have here cases that are more or less closely allied to the paranoid form of dementia praecox, other cases that are apparently dependent upon involutional changes (Kraepelin's *praeseniler Beeinträchtigungs-wahn*), still other cases that are characterized by absence or at least delay of mental deterioration, etc.

In some of these cases disturbance of the flow of utterance is not observed, and the test records obtained from them present no striking abnormalities. Distinctly pathological records are obtained mainly from those cases which clinically resemble dementia praecox; in these records the nature of the pathological reactions would seem to indicate that the diagnosis of dementia praecox would be more justifiable than that of paranoic condition.

The following test records will serve to illustrate the types of reactions met with in this group of psychoses:

CASE No. 3039.—F. A. Normal record.

Table—purpose	19
Dark—obscure	
Music—pleasant	1
Sickness—confinement	17
Man—twenty-one	12
Deep—down	
Soft—smooth	
Eating—nourishment	
Mountain—high	
House—living	
Black—dark	
Mutton—eating	1
Comfort—pleasant	
Hand—limb	
Short—low	
Fruit—eat	
Butterfly—miller	
Smooth—soft	
Command—obey	
Chair—sitting	
Sweet—tasting	
Whistle—noise	
Woman—female	
Cold—unpleasant	1
Slow—easy	
Wish—want	
River—water	
White—colorless	
Beautiful—handsome	
Window—glass	
Rough—unpleasant	1
Citizen—vote	
Foot—limb	
Spider—insect	

Needle—sewing	
Red—color	
Sleep—bed	
Anger—cross	
Carpet—floor	
Girl—young	
High—up	
Working—labor	1
Earth—dirt	
Trouble—worryment	
Soldier—fight	
Cabbage—vegetable	
Hard—tough	
Eagle—bird	
Stomach—anatomy	
Stem—growth	
Lamp—burn	
Dream—restlessness	
Yellow—color	
Bread—eat	
Justice—right	
Boy—young	
Light—see	
Health—well	
Bible—religion	
Memory—thoughtful	
Sheep—animal	
Bath—wash	
Cottage—house	
Swift—fast	
Blue—color	
Hungry—appetite	
Priest—Christian	17

Ocean—large	
Head—trunk	
Stove—fire	
Long—distance	
Religion—Christianity	
Whiskey—drinkable	
Child—young	
Bitter—bad	
Hammer—knock	
Thirsty—dry	
City—government	
Square—block	
Butter—eat	
Doctor—cure	
Loud—noisy	
Thief—steal	
Lion—animal	
Joy—pleasant	
Bed—laying	
Heavy—weighty	
Tobacco—smoking	
Baby—new-born	
Moon—planet	
Scissors—cutting	
Quiet—easy	
Green—color	
Salt—preservative	
Street—lane	
King—monarch	
Cheese—eatable	
Blossom—budding	
Afraid—fear	

CASE No. 5803.—D. E. D. Slight tendency to give sound reactions.

Table—tree	19
Dark—bright	
Music—song	
Sickness—health	
Man—woman	1
Deep—shallow	
Soft—hard	
Eating—digesting	
Mountain—hill	
House—horse	10
Black—red	
Mutton—tallow	
Comfort—wealth	
Hand—arm	
Short—long	
Fruit—plate	17
Butterfly—net	
Smooth—surface	
Command—obey	
Chair—table	
Sweet—sour	
Whistle—call	
Woman—lady	
Cold—lukewarm	19
Slow—not	12
Wish—receive	
River—lake	
White—black	
Beautiful—graceful	
Window—door	
Rough—smooth	
Citizen—city	
Foot—leg	
Spider—soap	10

Needle—pin	
Red—yellow	
Sleep—slumber	
Anger—amiable	
Carpet—mat	
Girl—boy	
High—hill	
Working—playing	
Sour—sweet	
Earth—land	
Trouble—tranquillity	10
Soldier—boy	
Cabbage—plant	
Hard—easy	
Eagle—bird	
Stomach—bowels	
Stern—head	
Lamp—chimney	17
Dream—myth	
Yellow—blue	
Bread—biscuit	
Justice—balance	17
Boy—girl	
Light—gray	17
Health—wealth	
Bible—prayerbook	
Memory—understanding	
Sheep—lamb	
Bath—swim	
Swift—slow	
Blue—yellow	
Hungry—eat	
Priest—bishop	

Ocean—river	
Head—neck	
Stove—covers	
Long—short	
Religion—optional	
Whiskey—wine	
Child—baby	
Bitter—sweet	
Hammer—gimlet	
Thirsty—drink	
City—town	
Square—compass	
Butter—butterfly	
Doctor—lawyer	
Loud—lord	
Thief—beggar	
Lion—lioness	
Joy—sorrow	
Bed—couch	
Heavy—light	
Tobacco—cigarette	
Baby—child	
Moon—stars	
Scissors—knife	
Quiet—quilt	
Green—envy	
Salt—sewing	
Street—lane	
King—queen	
Cheese—cracker	
Blossom—flower	
Afraid—courageous	

CASE No. 2133.—M. F. Unclassified reactions, mostly "far fetched" or incoherent; perseveration.

Table—eat	Needle—Carrie	19	Ocean—spring	15
Dark—night	Red—pink	19	Head—canary	19
Music—sing	Sleep—awake	19	Stove—board	18
Sickness—sadness	Anger—jolly	19	Long—dishes	18
Man—home	Carpet—curtains	19	Religion—piano	19
Deep—light	Girl—yellow	19	Whiskey—home	15
Soft—sleep	High—green	14	Child—baby	19
Eating—drink	Working—bed	19	Bitter—shoes	19
Mountain—hills	Sour—dishes	19	Hammer—tacks .....	.
House—home	Earth—grapes	13	Thirsty—longing .....	.
Black—stove	Trouble—work	1	City—Flushing	17
Mutton—lamb	Soldier—sing	15	Square—store	10
Comfort—pleasure	Cabbage—potatoes .....	.	Butter—butcher	10
Hand—write	Hard—sewing	17	Doctor—hat	19
Short—short—cake	Eagle—daisy	19	Loud—chair	15
Fruit—grapes	Stomach—flowers	18	Thief—picture	19
Butterfly—butter	Stem—vine .....	.	Lion—house	18
Smooth—ironing	Lamp—flatiron	19	Joy—gladness .....	.
Command—correct	Dream—sleep .....	.	Bed—sleep .....	.
Chair—see	Yellow—awake	18	Heavy—sick	2
Sweet—apples	Bread—children .....	.	Tobacco—album	19
Whistle—happiness	Justice—dresses	14	Baby—basket	17
Woman—girl	Boy—mother .....	.	Moon—stars .....	.
Cold—warm	Light—dark .....	.	Scissors—knife .....	.
Slow—fast	Health—wealth .....	.	Quiet—spoon	18
Wish—like	Bible—commands	2	Green—scar	19
River—water	Memory—black	18	Salt—pepper .....	.
White—blue	Sheep—chickens	17	Street—mugar	18
Beautiful—red	Bath—carpet	19	King—blacking	19
Window—light	Cottage—worsted	14	Cheese—meat .....	.
Rough—easy	Swift—silk	18	Blossom—flowers .....	.
Citizen—spring	Blue—cotton	18	Afraid—red	18
Foot—run	Hungry—chair	19	Priest—church .....	.
Spider—fly .....	.....	.		.

CASE No. 4569.—L. K. Marked stereotypy; unclassified reactions, mostly incoherent.

Table—fruit	Needle—house	6	Ocean—God	6
Dark—light	Red—colors	6	Head—servant	6
Music—pleasure	Sleep—God	6	Stove—house .....	.
Sickness—illness	Anger—God	5	Long—God	6
Man—parent	Carpet—house .....	.	Religion—servant	6
Deep—verse	Girl—God	6	Whiskey—doctor	15
Soft—fruit	High—house .....	.	Child—house	6
Eating—illness	Working—parent	6	Bitter—taste .....	.
Mountain—parent	Sour—desire	15	Hammer—household	19
House—privilege	Earth—God	6	Thirsty—drink .....	.
Black—colors	Trouble—God	5	City—God	6
Mutton—parent	Soldier—house	6	Square—touch	19
Comfort—family	Cabbage—desire	15	Butter—taste .....	.
Hand—comfort	Hard—vegetable .....	.	Doctor—servant	6
Short—parent	Eagle—animal .....	.	Loud—thought	9
Fruit—parent	Stomach—doctor .....	.	Thief—slave	19
Butterfly—insect	Stem—growth .....	.	Lion—animal .....	.
Smooth—surface	Lamp—house .....	.	Joy—pleasure	1
Command—privilege	Dream—God	6	Bed—household	16
Chair—house	Yellow—color .....	.	Heavy—weight .....	.
Sweet—dairy	Bread—God	6	Tobacco—doctor	15
Whistle—nature	Justice—fright	19	Baby—care .....	.
Woman—parent	Boy—parent	6	Moon—heavens .....	.
Cold—house	Light—God	6	Scissors—household	15
Slow—light	Health—God	5	Quiet—nerve	19
Wish—desire	Bible—teachings .....	.	Green—substance	19
River—house	Memory—teaching	2	Salt—taste .....	.
White—auspicion	Sheep—God	6	Street—heavens	15
Beautiful—house	Bath—cleanness .....	.	King—servant	6
Window—light	Cottage—home .....	.	Cheese—taste .....	.
Rough—surface	Swift—fear	19	Blossom—sight	19
Citizen—parent	Blue—color .....	.	Afraid—fear .....	.
Foot—house	Hungry—appetite .....	.		.
Spider—insect	Priest—servant .....	.		.

CASE No. 6164.—L. E. Remarkably persistent tendency to give sound reactions; numerous sound neologisms; no reactions given in response to some of the stimulus words on the ground that she had "no word to match."

Table—witchhazel	10	Needle—dreadle	3	Ocean—notion	10
Dark—frog	19	Red—shred	10	Head—shred	10
Music—lessons	2	Sleep—seef	3	Stove—shove	3
Sickness—badness	2	Anger—.....	.....	Long—song	10
Man—wife .....	.....	Carpet—shloppet	3	Religion—switching	19
Deep—seef	4	Girl—shirli	3	Whiskey—chiston	4
Soft—soft	3	High—fe	10	Child—kile	3
Eating—feeding .....	.....	Working—shlirking	3	Bitter—shitter	3
Mountain—sounding	10	Sour—bower	10	Hammer—lemon	18
House—shmouse	3	Earth—world .....	.....	Thirsty—firsten	3
Black—fake	19	Trouble—shuttle	19	City—.....	.....
Mutton—shutton	3	Soldier—polster	3	Square—birds	19
Comfort—somfort	3	Cabbage—sheffies	4	Butter—shudder	10
Hand—land	10	Hard—shward	3	Doctor—shoctor	3
Short—court	10	Eagle—.....	.....	Loud—souse	10
Fruit—shrewd	10	Stomach—.....	.....	Thief—sheaf	10
Butterfly—shuddery	3	Stem—lamp	19	Lion—Zion	10
Smooth—slude	3	Lamp—sant	4	Joy—bloy	3
Command—noman	3	Dream—jeam	3	Bed—wading	19
Chair—sash	19	Yellow—cherry	19	Heavy—sleavy	3
Sweet—leaf	19	Bread—dread	10	Tobacco—confecker	4
Whistle—noshissel	3	Justice—chestnuts	10	Baby—savy	3
Woman—lemon	19	Boy—.....	.....	Moon—shoon	3
Cold—shoal	10	Light—shwife	3	Scissors—.....	.....
Slow—snow	10	Health—felt	2	Quiet—sheet	3
Wish—dish .....	.....	Bible—.....	.....	Green—sheel	4
River—liberty	10	Memory—.....	.....	Salt—shawlt	3
White—size	10	Sheep—sheet	10	Street—freet	3
Beautiful—.....	.....	Bath—scab	19	King—sing	10
Window—Hilda	19	Cottage—foppach	3	Cheese—seefs	4
Rough—shoff	3	Swift—shift	10	Blossom—pleasant	9
Citizen—shifzen	3	Blue—shoe	10	Afraid—shraid	3
Foot—shoot	10	Hungry—angry .....	.....	Priest—sheaf	19
Spider—shider	3	.....	.....	.....	.....

CASE No. 3606.—F. W. Neologisms; some particles; many unclassified reactions, mostly incoherent.

Table—pleasure	9	Needle—pleasant	9	Ocean—apology	19
Dark—air	19	Red—permit	19	Head—trinity	19
Music—walking	19	Sleep—indeed	12	Stove—compartment	19
Sickness—gloves	19	Anger—benevolence	19	Long—terminal	19
Man—fields	19	Carpet—disorder	19	Religion—abundant	19
Deep—courtesy	19	Girl—cateren	19	Whiskey—approvement ..	4
Soft—spoons	19	High—aside	10	Child—anger	15
Eating—oranges .....	.....	Working—among	12	Bitter—courageous	19
Mountain—ice	17	Sour—destroy	19	Hammer—correction	19
House—paintings	2	Earth—confusion	19	Thirsty—afterwards	12
Black—blue .....	.....	Trouble—frivolous	19	City—cataract	19
Mutton—hemisphere	19	Soldier—air	15	Square—plenty	19
Comfort—flowers	19	Cabbage—temptation	19	Butter—accost	19
Hand—sawdust	19	Hard—among	12	Doctor—southern	19
Short—peanuts	19	Eagle—quality	19	Loud—triangular	19
Fruit—autoharp	19	Stomach—debasteur	4	Thief—cannery	19
Butterfly—disease	19	Stamp—counteract	19	Lion—practice	19
Smooth—ice .....	.....	Lamp—testament	19	Joy—summons	19
Command—botheration	19	Dream—connexus	4	Bed—avron	4
Chair—tea	19	Yellow—division	19	Heavy—olenthogolis	4
Sweet—arrangement	19	Bread—atherey	4	Tobacco—abundant	15
Whistle—steadfast	19	Justice—anger	19	Baby—parenthys	4
Woman—flowers	15	Boy—quality	15	Moon—otherwise	12
Cold—grandeur	19	Light—among	12	Scissors—cartridge	19
Slow—present	19	Health—frivolous	15	Quiet—outside	12
Wish—mania	19	Bible—permit	15	Green—abounty	4
River—courtesy	15	Memory—usual	19	Salt—calony	4
White—ink	17	Sheep—astray .....	.....	Street—abyes	19
Beautiful—flowers .....	.....	Bath—conscientious	19	King—cavenny	4
Window—air .....	.....	Cottage—texalous	4	Cheese—perplex	19
Rough—enjoyment	19	Swift—patience	19	Blossom—cartridge	15
Citizen—queer	19	Blue—community	19	Afraid—stubborn	19
Foot—hatred	19	Hungry—confusion	15	.....	.....
Spider—carousy	4	Priest—second	19	.....	.....

EPILEPSY.

Most of the cases of epilepsy in our collection show advanced dementia and in some the clinical history would indicate also original mental inferiority, that is to say, imbecility or feeble-mindedness.

In these cases the dominant characteristic, so far as shown in the test records, seems to be a narrowing of the mental horizon manifested firstly by a tendency to repeat many times one or another word, and secondly by an abnormally pronounced tendency to make use of non-specific reactions or particles of speech. Occasionally other abnormalities are noted, such as perseveration or distraction.

We submit here copies of some test records.

CASE No. 5410.—W. T. K. Repetition of words previously given; non-specific reactions.

Table—article	1	Needle—article	1	Ocean—body
Dark—light		Red—color		Head—member
Music—tone		Sleep—rest		Stove—article
Sickness—ill		Anger—condition	6	Long—distance
Man—person	1	Carpet—covering		Religion—profession
Deep—distant	2	Girl—female		Whiskey—liquid
Soft—condition	6	High—distance		Child—person
Eating—chew		Working—occupation		Bitter—condition
Mountain—high		Sour—condition	6	Hammer—article
House—abode		Earth—planet		Thirsty—condition
Black—color		Trouble—condition	6	City—place
Mutton—meat		Soldier—member	6	Square—honest
Comfort—peace		Cabbage—vegetable		Butter—article
Hand—limb		Hard—condition	6	Doctor—profession
Short—distance		Eagle—animal		Loud—sound
Fruit—result		Stomach—member		Thief—position
Butterfly—animal		Stem—branch		Lion—animal
Smooth—plain		Lamp—article	1	Joy—pleasant
Command—order		Dream—thinking	1	Bed—article
Chair—seat		Yellow—shade		Heavy—weight
Sweet—pleasant	1	Bread—article	6	Tobacco—plant
Whistle—sound		Justice—position	19	Baby—person
Woman—female		Boy—male		Moon—planet
Cold—chilly		Light—clear		Scissors—article
Slow—pace		Health—condition		Quiet—peaceful
Wish—desire		Bible—book		Green—shade
River—body		Memory—condition	6	Salt—article
White—clear		Sheep—animal		Street—place
Beautiful—grand		Bath—position	15	King—ruler
Window—place	13	Cottage—house		Cheese—article
Rough—unsmooth	4	Swift—fast		Blossom—plant
Citizen—member		Blue—color		Afraid—fear
Foot—member		Hungry—condition	6	
Spider—animal		Priest—office		

CASE No. 2208.—J. A. Repetition of words previously given; non-specific reactions.

Table—wood	Needle—clothes	Ocean—deep
Dark—chairs	Red—blood	Head—bad
Music—wood	Sleep—bed	Stove—wood
Sickness—dropsy	Anger—angry	Long—trees
Man—body	Carpet—stores	Religion—form
Deep—well	Girl—ladies	Whiskey—apples
Soft—lady	High—mountain	Child—people
Eating—man	Working—people	Bitter—apples
Mountain—hills	Sour—fruit	Hammer—axe
House—barns	Earth—clay	Thirsty—drink
Black—horse	Trouble—bad	City—towns
Mutton—sheep	Soldier—man	Square—measurement
Comfort—poison	Cabbage—field	Butter—cows
Hand—man	Hard—case	Doctor—person
Short—people	Eagle—bird	Loud—people
Fruit—trees	Stomach—man	Thief—person
Butterfly—tree	Stem—pipe	Lion—animal
Smooth—people	Lamp—fire	Joy—person
Command—general	Dream—bad	Bed—man
Chair—hands	Yellow—chair	Heavy—mountain
Sweet—fruit	Bread—rye	Tobacco—growing
Whistle—man	Justice—right	Baby—person
Woman—people	Boy—bad	Moon—people
Cold—ice	Light—ship	Scissors—cutting
Slow—people	Health—pig	Quiet—mind
Wish—dead	Bible—man	Green—cloud
River—lakes	Memory—mind	Salt—planting
White—foam	Sheep—mutton	Street—walk
Beautiful—man	Bath—water	King—human
Window—glass	Cottage—house	Cheese—milk
Rough—people	Swift—ship	Blossom—flowers
Citizen—man	Blue—lined	Afraid—human
Foot—people	Hungry—people	
Spider—barn	Priest—man	

CASE No. 01218.—E. M. Repitition of words previously given; non-specific reactions.

Table—tablecloth	Needle—use	Ocean—useful
Dark—dog	Red—look	Head—nice
Music—figure	Sleep—good	Stove—lighted
Sickness—drink	Anger—no	Long—lake
Man—people	Carpet—make	Religion—pleasant
Deep—pull	Girl—happy	Whiskey—use
Soft—light	High—nice	Child—help
Eating—think	Working—pleasant	Bitter—sour
Mountain—well	Sour—bag	Hammer—stick
House—plumber	Earth—ground	Thirsty—drink
Black—horse	Trouble—good	City—handy
Mutton—park	Soldier—clothes	Square—pleasant
Comfort—nice	Cabbage—eat	Butter—useful
Hand—use	Hard—good	Doctor—help
Short—long	Eagle—pleasant	Loud—make
Fruit—figs	Stomach—hurt	Thief—punish
Butterfly—cloth	Stem—use	Lion—had
Smooth—nice	Lamp—lighted	Joy—happy
Command—pleasant	Dream—pleasant	Bed—pleasant
Chair—wash	Yellow—wake	Heavy—light
Sweet—sour	Bread—making	Tobacco—pleasant
Whistle—mug	Justice—help	Baby—help
Woman—pear	Boy—pleasant	Moon—sun
Cold—warm	Light—big	Scissors—pleasant
Slow—quickness	Health—nice	Quiet—sleep
Wish—nice	Bible—use	Green—beans
River—pleasant	Memory—no	Salt—handy
White—use	Sheep—pleasant	Street—make
Beautiful—comfort	Bath—good	King—nice
Window—looks	Cottage—useful	Cheese—good
Rough—pleasant	Swift—quick	Blossom—pleasant
Citizen—comfort	Blue—good	Afraid—will
Foot—help	Hungry—sour	
Spider—wake	Priest—good	

CASE No. 4989.—C. H. Repetition of words previously given; non-specific reactions; particles.

Table—work	1	Needle—steel		Ocean—three	12
Dark—true	19	Red—color		Head—good	1
Music—pleasant	1	Sleep—plenty		Stove—burning	
Sickness—well		Anger—never		Long—medium	
Man—absent	19	Carpet—floor		Religion—willing	15
Deep—together	12	Girl—five	12	Whiskey—some	19
Soft—plenty	6	High—medium		Child—good	1
Eating—good	1	Working—always		Bitter—never	6
Mountain—together	12	Sour—never	6	Hammer—tool	
House—one	12	Earth—cultivate	17	Thirsty—seldom	6
Black—America	19	Trouble—none		City—New York	
Mutton—vegetable	2	Soldier—willing	15	Square—always	6
Comfort—sleep		Cabbage—vegetable		Butter—good	1
Hand—nothing	19	Hard—seldom	12	Doctor—good	1
Short—never	12	Eagle—American		Loud—medium	6
Fruit—vegetable		Stomach—no	12	Thief—none	
Butterfly—bird		Stem—one	12	Lion—animal	
Smooth—large	0	Lamp—burning		Joy—plenty	6
Command—willing		Dream—always	6	Bed—good	1
Chair—good	6	Yellow—sometimes	12	Heavy—medium	6
Sweet—always	6	Bread—soft		Tobacco—yes	12
Whistle—music		Justice—always		Baby—more	10
Woman—one	12	Boy—two	12	Moon—bright	
Cold—medium	6	Light—plenty		Selassors—sharp	
Slow—quick		Health—plenty		Quiet—plenty	6
Wish—hope		Bible—Catholic	17	Green—good	6
River—lake		Memory—good	1	Salt—little	19
White—always	6	Sleep—wool		Street—lote	18
Beautiful—medium	6	Bath—good	1	King—none	
Window—open		Cottage—plenty	6	Cheese—seldom	6
Rough—smooth		Swift—medium	6	Blossom—alwaya	6
Citizen—American		Blue—never	6	Afraid—sometimes	15
Foot—two		Hungry—seldom	6		
Spider—butterfy		Priest—good	1		

CASE No. 4847.—C. C. Distraction.

Table—eat		Needle—scissors	17	Ocean—beans	19
Dark—lock	10	Red—blue		Head—prunes	18
Music—fiddle		Sleep—pink	18	Stove—cook	
Sickness—doctors	2	Anger—box	19	Long—fig	19
Man—woman	1	Carpet—rug		Religion—church	
Deep—water		Girl—boy		Whiskey—ten	17
Soft—snow		High—play		Child—people	1
Eating—oats	17	Working—cup	19	Bitter—stomach	19
Mountain—spray	19	Sour—bread	17	Hammer—tack	
House—building		Earth—picture	19	Thirsty—peach	15
Black—red	15	Trouble—soap	19	City—box	15
Mutton—meat	9	Soldier—towel	18	Square—soap	15
Comfort—red	15	Cabbage—turnip		Butter—lard	
Hand—people	9	Hard—tree		Doctor—sick	
Short—world	19	Eagle—clock	19	Loud—head	19
Fruit—age	18	Stomach—eat		Thief—cup	18
Butterfly—bird		Stem—soap	15	Lion—bottle	16
Smooth—eggs	18	Lamp—oil		Joy—pitcher	19
Command—cake	19	Dream—glass	18	Bed—sheet	
Chair—world	15	Yellow—bottle	18	Heavy—blanket	18
Sweet—cherries		Bread—soap	15	Tobacco—mustard	19
Whistle—peaches	18	Justice—pencil	19	Baby—pepper	18
Woman—children		Boy—picture	15	Moon—heater	19
Cold—summer	17	Light—darkness		Scissors—string	
Slow—brother	19	Health—washstand	19	Quiet—lace	19
Wish—pear	19	Bible—book		Green—red	
River—orange	18	Memory—saucer	19	Salt—soda	17
White—black		Sheep—chair	19	Street—soldier	19
Beautiful—red	18	Bath—bureau	14	King—box	15
Window—door		Cottage—pan	19	Cheese—cake	
Rough—table		Swift—towel	15	Blossom—shell	19
Citizen—couch	19	Blue—wash	2	Afraid—blotter	19
Foot—arm		Hungry—eat			
Spider—fly		Priest—church			

CASE No. 3597.—L. T. Some neologisms, all possessing obvious meaning.

Table—stand	Needle—pin	Ocean—sea
Dark—light	Red—blue	Head—topness
Music—instrument	Sleep—awake	Stove—cooking
Sickness—health	Anger—patient	Long—shorter
Man—female	Carpet—rug	Religion—wickedness
Deep—deptableness	Girl—servant	Whiskey—medicine
Soft—hard	High—low	Child—daughter
Eating—starving	Working—laziness	Bitter—sweetness
Mountain—isthmus	Sour—sweet	Hammer—pickaxe
House—building	Earth—hemisphere	Thirsty—drinkness
Black—white	Trouble—goodness	City—village
Mutton—beef	Soldier—merchant	Square—straightness
Comfort—patient	Cabbage—pumpkin	Butter—syrup
Hand—leg	Hard—tight	Doctor—queen
Short—long	Eagle—hawk	Loud—low
Fruit—vegetable	Stomach—abdomen	Thief—burglar
Butterfly—spider	Stem—leaf	Lion—tiger
Smooth—coarse	Lamp—lantern	Joy—enjoyable
Command—thought	Dream—nightmare	Bed—bedstead
Chair—utensil	Yellow—lavender	Heavy—lightness
Sweet—sour	Bread—pastry	Tobacco—sweetness
Whistle—trumpet	Justice—badness	Baby—infant
Woman—man	Boy—child	Moon—sun
Cold—warm	Light—darkness	Scissors—shears
Slow—quick	Health—sickness	Quiet—noiseness
Wish—command	Bible—testament	Green—greenbill
River—lake	Memory—remember	Salt—sugar
White—black	Sheep—lamb	Street—island
Beautiful—pretty	Bath—dirtiness	King—nephew
Window—door	Cottage—building	Cheese—curdness
Rough—straight	Swift—quickly	Blossom—bud
Citizen—tramp	Blue—redness	Afraid—knowledgeable ..
Foot—arm	Hungry—starving	4
Spider—fly	Priest—minister	

GENERAL PARESIS.

Cases presenting no considerable dementia or confusion and cases in a state of remission are apt to give normal test records. As we proceed from the records of such cases to those of cases showing mental deterioration we observe a gradual reduction in the values of reactions, contraction of the mental horizon,¹ and the appearance of the phenomenon of perseveration. We submit the following test records for illustration:

¹ What we mean by contraction of the mental horizon has already been described in connection with epilepsy, page 47.

CASE No. 4047.—C. A. F. Almost complete remission of all mental symptoms. Normal record.

Table—dish	Needle—sharp	Ocean—sea
Dark—light	Red—color	Head—top
Music—sound	Sleep—slumber	Stove—fire
Sickness—disease	Anger—rage	Long—short
Man—woman	Carpet—sweep	Religion—holiness
Deep—fathomless	Girl—maiden	Whiskey—drink
Soft—sweet	High—lofty	Child—infant
Eating—food	Working—toiling	Bitter—sour
Mountain—high	Sour—distasteful	Hammer—knock
House—barn	Earth—ground	Thirsty—drink
Black—color	Trouble—sorrow	City—town
Mutton—meat	Soldier—fighter	Square—round
Comfort—ease	Cabbage—leaf	Butter—eat
Hand—foot	Hard—easy	Doctor—physician
Short—long	Eagle—fly	Loud—knock
Fruit—sweet	Stomach—food	Thief—steal
Butterfly—moth	Stem—petal	Lion—tiger
Smooth—rough	Lamp—light	Joy—happiness
Command—order	Dream—slumber	Bed—sleep
Chair—leg	Yellow—color	Heavy—weigh
Sweet—pleasant	Bread—eat	Tobacco—smoke
Whistle—sound	Justice—judgment	Baby—child
Woman—female	Boy—youth	Moon—stars
Cold—ice	Light—lamp	Scissors—cut
Slow—liquid	Health—nature	Quiet—soft
Wish—desire	Bible—holy	Green—color
River—long	Memory—remember	Salt—food
White—color	Sheep—lamb	Street—lane
Beautiful—fair	Bath—water	King—queen
Window—glass	Cottage—house	Cheese—eat
Rough—smooth	Swift—fast	Blossom—flower
Citizen—voter	Blue—color	Afraid—fear
Foot—toe	Hungry—famished	
Spider—fly	Priest—holy	

CASE No. 6660.—F. F. Repetition of words previously given; non-specific reactions; unclassified reactions some of which are "circumstantial" (see page 25).

Table—bureau	Needle—sew	Ocean—bonito
Dark—boats	Red—nice	Head—brains
Music—piano	Sleep—rest	Stove—heat
Sickness—doctor	Anger—cross	Long—streets
Man—sober	Carpet—good	Religion—Catholic
Deep—cellar	Girl—nice	Whiskey—bad
Soft—easy	High—good	Child—good
Eating—chewing	Working—well	Bitter—sorrow
Mountain—climb	Sour—bitter	Hammer—use
House—tenants	Earth—property	Thirsty—drink
Black—color	Trouble—fighting	City—Brooklyn
Mutton—meat	Soldier—good	Square—parks
Comfort—easy	Cabbage—eat	Butter—ice
Hand—use	Hard—sorry	Doctor—cure
Short—stump	Eagle—good	Loud—holler
Fruit—nice	Stomach—good	Thief—no
Butterfly—like	Stem—fair	Lion—no
Smooth—clean	Lamp—use	Joy—hope
Command—faithful	Dream—now	Bed—rest
Chair—easy	Yellow—color	Heavy—load
Sweet—like	Bread—good	Tobacco—good
Whistle—good	Justice—fine	Baby—good
Woman—like	Boy—good	Moon—light
Cold—medicine	Light—good	Scissors—use
Slow—I	Health—right	Quiet—good
Wish—like	Bible—home	Green—nice
River—boats	Memory—good	Salt—use
White—sheet	Sheep—like	Street—nice
Beautiful—flowers	Bath—good	King—right
Window—red	Cottage—fine	Cheese—nice
Rough—streets	Swift—go	Blossom—grow
Citizen—honest	Blue—nice	Afraid—no
Foot—walking	Hungry—bad	
Spider—kill	Priest—Father	

A STUDY OF ASSOCIATION IN INSANITY

CASE No. 6185.—R. N. Numerous particles of speech; some unclassified reactions, chiefly "circumstantial" (see page 25).

Table—eat	Needle—sewing	Ocean—water
Dark—cloudy	Red—blue	Head—human
Music—fond	Sleep—nap	Stove—coal
Sickness—well	Anger—willing	Long—short
Man—human	Carpet—yes	Religion—yes
Deep—ocean	Girl—nature	Whiskey—no
Soft—fine	High—low	Child—baby
Eating—yes	Working—artist	Bitter—sweet
Mountain—yes	Sour—sweet	Hammer—pincher
House—yes	Earth—world	Thirsty—drinking
Black—yes	Trouble—peaceful	City—population
Mutton—yes	Soldier—no	Square—circle
Comfort—yes	Cabbage—vegetable	Butter—lard
Hand—finger	Hard—soft	Doctor—physician
Short—yes	Eagle—American	Loud—low
Fruit—yes	Stomach—condition	Thief—penalty
Butterfly—yes	Stem—post	Lion—liar
Smooth—even	Lamp—light	Joy—welcome
Command—obey	Dream—thinking	Bed—sleep
Chair—settle	Yellow—green	Heavy—light
Sweet—bitter	Bread—loaf	Tobacco—yes
Whistle—can't	Justice—yes	Baby—human
Woman—lady	Boy—human	Moon—natural
Cold—ice	Light—heaven	Scissors—no
Slow—fast	Health—wealth	Quiet—yes
Wish—give	Bible—yes	Green—shade
River—enjoyment	Memory—yes	Salt—eat
White—black	Sherp—animal	Street—town
Beautiful—yes	Bath—yes	King—ruler
Window—pane	Cottage—yes	Cheese—eat
Rough—smooth	Swift—fast	Blossom—blooming
Citizen—yes	Blue—gray	Afraid—scared
Foot—one	Hungry—no	
Spider—yes	Priest—yes	

CASE No. 6518.—C. Z. Perseveration shown by numerous instances of association to preceding reaction.

Table—horse	Needle—pin	Ocean—mother
Dark—wren	Red—blue	Head—brother
Music—lark	Sleep—awake	Stove—sister
Sickness—cold	Anger—bad	Long—freedom
Man—woman	Carpet—sweeper	Religion—smart
Deep—sea	Girl—boy	Whiskey—wine
Soft—hard	High—low	Child—lamb
Eating—drinking	Working—playing	Bitter—goat
Mountain—fountain	Sour—sweet	Hammer—nails
House—barn	Earth—ground	Thirsty—dry
Black—stable	Trouble—whr lbarrow	City—talking
Mutton—cow	Soldier—Mexican	Square—inches
Comfort—horse	Cabbage—potatoes	Butter—cheese
Hand—lamb	Hard—beets	Doctor—bread
Short—calf	Eagle—carrots	Loud—oranges
Fruit—apples	Stomach—peas	Thief—almonds
Butterfly—oranges	Stem—peas	Lion—apples
Smooth—peaches	Lamp—burning	Joy—grapes
Command—plums	Dream—happy	Bed—peaches
Chair—bench	Yellow—blue	Heavy—cranberries
Sweet—sugar	Bread—green	Tobacco—grapes
Whistle—drum	Justice—freedom	Baby—watermelons
Woman—man	Boy—girl	Moon—muskmelons
Cold—hot	Light—burning	Neimors—citrons
Slow—fast	Health—strength	Quiet—squashes
Wish—who	Bible—prayerbook	Green—pumpkins
River—water	Memory—thoughts	Salt—cucumbers
White—blue	Sheep—lamb	Street—tomatoes
Beautiful—splendid	Bath—water	King—pears
Window—sauses	Cottage—house	Cheese—apples
Rough—ready	Swift—whist	Blossom—cherries
Citizen—Brooklyn	Blue—red	Afraid—gooseberries
Foot—shoe	Hungry—eating	
Spider—web	Priest—Father	

CASE No. 5329.—B. W. Perseveration; record almost entirely made up of instances of association to preceding reaction.

Table—San Francisco	...19	Needle—Texas	.....18	Ocean—lake	.....
Dark—comprehensible	..19	Red—North Carolina	...18	Head—bay	.....18
Music—singing	.....	Sleep—Florida	.....18	Stove—sound	.....18
Sickness—Brooklyn	....19	Anger—Seattle	.....18	Long—Island	.....
Man—woman	....1	Carpet—Nevada	.....18	Religion—Boston	.....18
Deep—amazing	....19	Girl—Iowa	.....15	Whiskey—Harvard	.....18
Soft—pleasant	....9	High—Virginia	.....18	Child—Yale	.....18
Eating—digesting	.....	Working—Louisiana	.....18	Bitter—Columbia	.....18
Mountain—gulf	....17	Sour—Hawaii	.....18	Hammer—library	.....18
House—peninsula	....18	Earth—Connecticut	.....18	Thirsty—Carnegie	.....18
Black—Constantinople	..18	Trouble—Rhode Island	..18	City—Rockefeller	.....18
Mutton—Bermuda	....18	Soldier—Vermont	.....18	Square—Harriman	.....18
Comfort—Los Angeles	..18	Cabbage—Massachusetts	..18	Butter—Leggett	.....18
Hand—Cuba	....18	Hard—Hudson	.....18	Doctor—Lincoln	.....18
Short—cities	....18	Eagle—East River	.....18	Loud—Roosevelt	.....18
Fruit—Iowa	....18	Stomach—Staten Island	..18	Thief—Taft	.....18
Butterfly—England	....18	Stem—Kings Park	.....18	Lion—Gaynor	.....18
Smooth—Russia	....18	Lamp—Fort Lee	.....18	Joy—Slocum	.....18
Command—Turkey	....18	Dream—Long Island	.....18	Bed—Grant	.....18
Chair—Manila	....18	Yellow—Greenport	.....18	Heavy—McClellan	.....18
Sweet—Porto Rico	....18	Bread—Southold	.....18	Tobacco—Spain	.....19
Whistle—Washington	....18	Justire—Northport	.....18	Baby—New London	.....18
Woman—Cincinnati	....18	Boy—New Jersey	.....18	Moon—Newburgh	.....18
Cold—Pittsburgh	....18	Light—Rome	.....18	Scissors—Troy	.....18
Slow—Philadelphia	.....	Health—Italy	.....18	Quiet—Schenectady	.....18
Wish—Milwaukee	....18	Bible—Episcopal	.....17	Green—Lake George	.....18
River—St. Louis	....18	Memory—Methodist	....18	Salt—Vienna	.....18
White—Japan	....18	Sheep—Congregational	....18	Street—Alsace Lorraine	..18
Beautiful—China	....18	Bath—Baptist	.....18	King—Garfield	.....17
Window—Berlin	....18	Cottage—minister	.....18	Cheese—McKinley	.....18
Rough—Glasgow	....18	Swift—physician	.....18	Blossom—Bryan	.....18
Citizen—London	....18	Blue—horse	.....18	Afraid—Blaine	.....18
Foot—Dublin	....18	Hungry—cow	.....18	Priest—Catholics	.....
Spider—Sacramento	....18				

MANIC-DEPRESSIVE INSANITY.

In this disorder the departures from the normal seem to be less pronounced than in the psychoses considered above. The number of individual reactions is in most cases not greatly above the normal average; and, so far as their character is concerned, we find that many of them are classed as normal, in accordance with the appendix to the frequency tables; among the unclassified reactions, which are quite frequent here, we find mostly either obviously normal ones, or some of the type to which we have already referred as "far-fetched," while others among them are "circumstantial" (see p. 25); further we find that most of the remaining individual reactions fall into the general group of partial dissociation: non-specific reactions, sound reactions, word complements, and particles.

In some cases the only abnormality that is found is that of an undue tendency to respond by non-specific reactions, most of them being common and there being no excessive number of individual reactions. It would seem legitimate to assume that this tendency

is here to be regarded as a manifestation of the phenomenon which is clinically described as *dearth of ideas*. It is significant that this tendency is observed not only in depressive phases of the psychosis, but also in manic phases and even in the normal intervals of recurrent cases or after apparent recovery in acute cases; this will be seen from some of the test records which are here reproduced.

Occasionally cases are met with which give a large number of unclassified reactions, seemingly incoherent. There can be no doubt that at least some of these cases are clinically perfectly typical ones of manic-depressive insanity, yet the test records strongly resemble, in some respects, those of dementia praecox. Since clinically the distinction between typical cases of these psychoses can be so clearly made on the basis of the disorders of the flow of thought respectively characterizing them, it could hardly be assumed that the associational disturbances in these two groups of cases are truly related, although there may be an apparent resemblance; it must be acknowledged that we are here confronted with one of the most serious shortcomings of the association test, or at least of the present method of applying it.

CASE No. 5236.—M. B. Depressive attack. Normal record.

Table—eat	Needle—sew	Ocean—water
Dark—night	Red—color	Head—body
Music—play	Sleep—rest	Stove—fire
Sickness—death	Anger—badness	Long—tall
Man—health	Carpet—floor	Religion—teaching
Deep—depth	Girl—young	Whiskey—drink
Soft—hard	High—low	Child—young
Eating—chewing	Working—busy	Bitter—sweet
Mountain—high	Sour—sweet	Hammer—nail
House—living	Earth—live	Thirsty—drink
Black—color	Trouble—grief	City—town
Mutton—sheep	Soldier—army	Square—four
Comfort—kind	Cabbage—garden	Butter—eat
Hand—body	Hard—stone	Doctor—medicine
Short—small	Eagle—bird	Loud—noise
Fruit—garden	Stomach—body	Thief—steal
Butterfly—spring	Stem—plant	Lion—heast
Smooth—rough	Lamp—light	Joy—kind
Command—obey	Dream—sleep	Bed—sleep
Chair—sit	Yellow—color	Heavy—weight
Sweet—apple	Bread—eat	Tobacco—smoke
Whistle—music	Justice—kind	Baby—mother
Woman—kind	Boy—young	Moon—light
Cold—chilly	Light—day	Scissors—cut
Slow—easy	Health—strength	Quiet—kind
Wish—want	Bible—Christ	Green—grass
River—water	Memory—think	Salt—table
White—color	Sheep—mutton	Street—walk
Beautiful—grand	Bath—clean	King—government
Window—light	Cottage—live	Cheese—eat
Rough—smooth	Swift—run	Blossom—tree
Citizen—man	Blue—color	Afraid—coward
Foot—body	Hungry—food	
Spider—animal	Priest—clergy	

CASE No. 6120.—M. L. Maniacal attack. Fifteen individual reactions, of which 11 are classed as normal in accordance with the appendix to the frequency tables.

Table-chair	Needle—doctor	19	Ocean—sea
Dark—light	Red—white		Head—neck
Music—chorus	Sleep—well		Stove—electricity
Sickness—health	Anger—passion		Long—broad
Man—woman	Carpet—cloth		Religion—Presbyterian
Deep—around	Girl—boy		Whiskey—medicinal
Soft—light	High—low		Child—boy
Eating—food	Working—pleasure	1	Bitter—sweet
Mountain—valley	Sour—sweet		Hammer—saw
House—flat	Earth—heaven		Thirsty—water
Black—white	Trouble—anger		City—Middletown
Mutton—beef	Soldier—mine	12	Square—Madison
Comfort—disease	Cabbage—steak	17	Butter—bread
Hand—legs	Hard—soft		Doctor—love
Short—tall	Eagle—parrot		Loud—soft
Fruit—grapes	Stomach—pelvis	17	Thief—burglar
Butterfly—birds	Stem—flowers		Lion—animal
Smooth—rough	Lamp—light		Joy—ecstasy
Command—president	Dream—empty	17	Bed—couch
Chair—assemblyman	Yellow—black		Heavy—lead
Sweet—bitter	Bread—brown		Tobacco—smoke
Whistle—birds	Justice—done		Baby—boy
Woman—man	Boy—baby		Moon—stars
Cold—warm	Light—heaven		Scissors—cotton
Slow—fast	Health—wealth		Quiet—noisy
Wish—well	Bible—love		Green—yellow
River—mountain	Memory—remembrance		Salt—pepper
White—red	Sheep—goat		Street—Dean
Beautiful—heaven	Bath—water		King—God
Window—door	Cottage—house		Cheese—Roquefort
Rough—smooth	Swift—slow		Blossom—apple
Citizen—naturalization	Blue—green		Afraid—never
Foot—hand	Hungry—I		Priest—minister
Spider—bug			

CASE No. 6367.—J. N. Depressive attack. Only two individual reactions, both classed as normal; undue tendency to give non-specific reactions.

Table—cup	Needle—thread		Ocean—water
Dark—light	Red—blue		Head—arm
Music—song	Sleep—rest		Stove—warm
Sickness—pain	Anger—passion		Long—short
Man—child	Carpet—rug		Religion—good
Deep—high	Girl—child		Whiskey—none
Soft—hard	High—low		Child—good
Eating—tasting	Working—labor		Bitter—sour
Mountain—valley	Sour—sweet		Hammer—noise
House—room	Earth—ground		Thirsty—water
Black—white	Trouble—overcome	17	City—country
Mutton—lamb	Soldier—brave		Square—round
Comfort—peace	Cabbage—lettuce		Butter—salt
Hand—foot	Hard—soft		Doctor—good
Short—long	Eagle—bird		Loud—noise
Fruit—apple	Stomach—heart		Thief—man
Butterfly—moth	Stem—tree		Lion—beast
Smooth—rough	Lamp—light		Joy—good
Command—obey	Dream—sleep		Bed—good
Chair—table	Yellow—red		Heavy—weight
Sweet—sour	Bread—roll		Tobacco—smoke
Whistle—song	Justice—peace		Baby—child
Woman—love	Boy—child		Moon—sun
Cold—warm	Light—sun		Scissors—knife
Slow—fast	Health—wealth		Quiet—rest
Wish—well	Bible—good	1	Green—red
River—water	Memory—good	1	Salt—water
White—black	Sheep—lamb		Street—city
Beautiful—grand	Bath—water		King—man
Window—glass	Cottage—house		Cheese—butter
Rough—smooth	Swift—fast		Blossom—flower
Citizen—man	Blue—white		Afraid—fear
Foot—hand	Hungry—eat		
Spider—fly	Priest—man	1	

CASE No. 5162.—W. H. Recurrent attacks, mixed in character; at time of test patient was in a normal interval. 5 individual reactions, of which 1 is classed as normal, 1 as a derivative, 2 as non-specific, and 1 as a sound reaction; undue tendency to give non-specific (common) reactions.

Table—comfort	Needle—sharpness	Ocean—sailing
Dark—darkness	Red—blood	Head—thinking
Music—pleasure	Sleep—comfort	Stove—warmth
Sickness—sorrow	Anger—passion	Long—length
Man—manners	Carpet—walking	Religion—holiness
Deep—thought	Girl—lovely	Whiskey—badness
Soft—comfort	High—height	Child—pleasure
Eating—pleasure	Working—business	Bitter—sourness
Mountain—height	Sour—tart	Hammer—pounding
House—comfort	Earth—planting	Thirsty—drinking
Black—darkness	Trouble—sorrow	City—town
Mutton—eating	Soldier—fighting	Square—measure
Comfort—pleasure	Cabbage—eating	Butter—greasy
Hand—useful	Hard—harshness	Doctor—medicine
Short—stumpy	Eagle—flying	Loud—hearing
Fruit—eating	Stomach—eating	Thief—stealing
Butterfly—handsome	Stem—vine	Lion—fierceness
Smooth—plane	Lamp—lighting	Joy—pleasure
Command—ordering	Dream—pleasure	Bed—sleeping
Chair—easy	Yellow—color	Heavy—solid
Sweet—candy	Bread—eating	Tobacco—pleasure
Whistle—noise	Justice—suing	Baby—loveliness
Woman—love	Boy—children	Moon—bright
Cold—freezing	Light—seeing	Scissors—sharpness
Slow—laziness	Health—pleasure	Quiet—pleasure
Wish—good	Bible—thinking	Green—color
River—water	Memory—recollections	Salt—taste
White—clearness	Sheep—wool	Street—walking
Beautiful—handsome	Bath—pleasure	King—majestic
Window—scene	Cottage—living	Cheese—eating
Rough—harshness	Swift—quickness	Blossom—handsome
Citizen—voting	Blue—sky	Afraid—fear
Foot—stepping	Hungry—pleasure	Priest—holiness
Spider—poison		

CASE No. 6279.—A. F. Maniacal attack; at time of test patient had improved, though not recovered. Non-specific reactions; particles. (Patient does not speak English with perfect fluency.)

Table—board	Needle—steel	Ocean—Grove
Dark—night	Red—rose	Head—black
Music—piano	Sleep—well	Stove—shine
Sickness—appendicitis	Anger—not	Long—square
Man—husband	Carpet—beauty	Religion—no
Deep—hole	Girl—love	Whiskey—champagne
Soft—hard	High—reason	Child—my
Eating—vegetable	Working—dream	Bitter—pepper
Mountain—country	Sour—vinegar	Hammer—knock
House—comfort	Earth—ground	Thirsty—no
Black—cotton	Trouble—much	City—New York
Mutton—lamb	Soldier—blue	Square—table
Comfort—rest	Cabbage—sour	Butter—good
Hand—arm	Hard—no	Doctor—S
Short—journey	Eagle—paper	Loud—talk
Fruit—apples	Stomach—well	Thief—night
Butterfly—love	Stem—flower	Lion—yes
Smooth—nice	Lamp—light	Joy—good
Command—order	Dream—awful	Bed—comfort
Chair—down	Yellow—flower	Heavy—Iron
Sweet—sugar	Bread—rye	Tobacco—strong
Whistle—blow	Justice—court	Baby—love
Woman—good	Boy—little	Moon—shine
Cold—ice	Light—room	Scissors—cut
Slow—lazy	Health—love	Quiet—well
Wish—home	Bible—no	Green—bow
River—boat	Memory—good	Salt—bitter
White—milk	Sheep—lot	Street—Hinsdale
Beautiful—flowers	Bath—cold	King—Franz Joseph
Window—corner	Cottage—little	Cheese—Swiss
Rough—man	Swift—kick	Blossom—nice
Citizen—not	Blue—no	Afraid—no
Foot—short	Hungry—no	
Spider—don't	Priest—love	

CASE No. 4578.—E. M. Circular insanity of over twenty years' standing; at time of test patient was in a manic phase. Non-specific reactions; doubtful reactions; neologisms, all possessing obvious meaning.

Table—using	1	Needle—article	1	Ocean—water	
Dark—unbright	4	Red—color	1	Head—body	
Music—songs	17	Sleep—tiredness	4	Stove—article	1
Sickness—catching	17	Anger—scolding	1	Long—shortly	2
Man—masculine	1	Carpet—article	1	Religion—Bible	
Deep—high	1	Girl—female	1	Whiskey—drinking	
Soft—chew	19	High—low	1	Child—dismembering	4
Eating—sometimes	12	Working—do	1	Bitter—taste	
Mountain—highlands	1	Sour—tasting	1	Hammer—using	1
House—live	1	Earth—surface	1	Thirsty—drinking	
Black—color	1	Trouble—worryment	1	City—acting	15
Mutton—meat	1	Soldier—man	1	Square—measuring	2
Comfort—easy	1	Cabbage—vegetable	1	Butter—food	
Hand—body	1	Hard—difficult	1	Doctor—helping	2
Short—unlongly	4	Eagle—bird	1	Loud—hearing	2
Fruit—plants	1	Stomach—body	1	Thief—untrue	15
Butterfly—insects	1	Stem—article	6	Lion—animal	
Smooth—feeling	1	Lamp—article	1	Joy—gladness	
Command—do	1	Dream—untruly	4	Bed—lying	
Chair—use	1	Yellow—color	1	Heavy—unlightly	4
Sweet—taste	1	Bread—food	1	Tobacco—using	1
Whistle—act	1	Justice—unfairly	2	Baby—borning	4
Woman—female	1	Boy—masculine	1	Moon—sending	19
Cold—acting	2	Light—easy	1	Scissors—using	1
Slow—gradually	17	Health—sickness	1	Quiet—acting	2
Wish—desire	1	Bible—commandments	1	Green—color	
River—water	1	Memory—remember	1	Salt—food	
White—color	1	Sheep—animal	1	Street—walking	
Beautiful—niceness	2	Bath—cleanliness	1	King—person	1
Window—built	19	Cottage—country	1	Cheese—food	
Rough—treatment	17	Swift—quickly	1	Blossom—plant	
Citizen—country	1	Blue—color	1	Afraid—frightened	
Foot—body	1	Hungry—food	1		
Spider—insect	1	Priest—masculine	15		

CASE No. 5878.—A. B. Maniacal attack. 48 individual reactions, of which 18 are classed as normal, 10 are sound reactions (2 sound neologisms), 1 word complement, 8 particles, and 11 unclassified reactions most of which are either obviously normal or "far fetched" but not strictly incoherent.

Table—mahogany	1	Needle—tailor	19	Ocean—Niagara	17
Dark—green	1	Red—Herald	19	Head—rest	
Music—masonic	10	Sleep—seven	12	Stove—stationary	10
Sickness—seasickness	10	Anger—Angoria	3	Long—poems	19
Man—maternity	10	Carpet—green	1	Religion—Catholic	
Deep—well	1	Girl—eighteen	12	Whiskey—Hunter	
Soft—silk	1	High—school	11	Child—Jesus	17
Eating—cleanliness	19	Working—ten	12	Bitter—gall	
Mountain—Gibraltar	17	Sour—kraut	1	Hammer—steel	
House—bungallow	1	Earth—round	1	Thirsty—water	
Black—light	1	Trouble—son	19	City—New York	
Mutton—lamb	1	Soldier—navy	1	Square—Union	
Comfort—linen	17	Cabbage—curly	19	Butter—sweet	
Hand—left	17	Hard—stone	1	Doctor—S.	17
Short—shorthand	10	Eagle—almanac	17	Loud—discreet	19
Fruit—pears	1	Stomach—stomjack	3	Thief—night	
Butterfly—canary	17	Stem—maple	17	Lion—Boston	2
Smooth—linen	17	Lamp—New York	19	Joy—Joy Line	10
Command—pilot	17	Dream—husband	19	Bed—Ostermoor	17
Chair—round	1	Yellow—cards	17	Heavy—iron	
Sweet—sugar	1	Bread—rye	1	Tobacco—Durham	
Whistle—mother	19	Justice—liberty	1	Baby—Rose	17
Woman—twenty-one	12	Boy—Joe	1	Moon—half	
Cold—ice	1	Light—white	1	Scissors—steel	
Slow—music	1	Health—death	10	Quiet—nursing	19
Wish—girl	1	Bible—holy	1	Green—grass	
River—Hudson	1	Memory—seven	12	Salt—rock	
White—plaster	17	Sheep—lamb	1	Street—Liberty	17
Beautiful—nature	1	Bath—cleanliness	1	King—Alphonso	
Window—St. Patrick's	17	Cottage—gray	17	Cheese—Swiss	
Rough—blankets	19	Swift—ball	1	Blossom—apple	
Citizen—twenty-one	12	Blue—balloon	10	Afraid—dark	
Foot—six	12	Hungry—yes	12		
Spider—fly	1	Priest—doctor	1		

CASE No. 6511.—U. B. Maniacal attack. Persistent use of particles *oh, me, I, none, etc.*

Table—none	6	Needle—pine	17	Ocean—I	5
Dark—red		Red—brother	19	Head—home	6
Music—stock	19	Sleep—Adam	19	Stove—home	
Sickness—rose	19	Anger—I	6	Long—short	
Man—Frank	17	Carpet—home		Religion—none	
Deep—blue		Girl—Agatha	17	Whiskey—none	
Soft—pillow		High—niece	18	Child—Sylvester	17
Eating—no	12	Working—I	6	Bitter—I	6
Mountain—oyster	11	Sour—I	5	Hammer—my	12
House—mercy	19	Earth—I	5	Thirsty—no	6
Black—mother	19	Trouble—I	5	City—no	5
Mutton—me	6	Soldier—father	15	Square—Ben	19
Comfort—home		Cabbage—hail	10	Butter—I	6
Hand—mother	15	Hard—me	12	Doctor—I	5
Short—me	6	Eagle—I	6	Loud—bell	
Fruit—me	5	Stomach—I	5	Thief—iron	19
Butterfly—it	12	Stem—life		Lion—I	6
Smooth—oh	12	Lamp—Lambert	10	Joy—I	5
Command—none	6	Dream—I	6	Bed—I	5
Chair—none	5	Yellow—I	5	Heavy—I	5
Sweet—for	12	Bread—I	5	Tobacco—I	5
Whistle—bird		Justice—I	5	Baby—I	5
Woman—I	6	Boy—just	13	Moon—will	12
Cold—I	5	Light—picture	19	Scissors—beads	15
Slow—me		Health—cook	19	Quiet—nerves	19
Wish—none	2	Bible—beads	17	Green—I	6
River—are	12	Memory—Dick	19	Salt—I	5
White—wife	10	Sheep—to	12	Street—Peter	17
Beautiful—Alma	17	Bath—none		King—I	6
Window—Stephen	19	Cottage—home		Cheese—I	5
Rough—Rudolphia	10	Swift—lazy		Blossom—I	5
Citizen—father	17	Blue—Nell	19	Afraid—no	
Foot—Anthony	19	Hungry—I			
Spider—reverend	19	Priest—I	5		

CASE No. 4427.—A. R. Maniacal attack. Unusual number of doubtful reactions; 46 individual reactions of which 9 are classed as normal; 29 are unclassified, some seemingly incoherent.

Table—Chicago	19	Needle—canoe	19	Ocean—ships	
Dark—Montreal	18	Red—refreshments	10	Head—intelligence	
Music—Mississippi	18	Sleep—restfulness	2	Stove—woods	2
Sickness—flowers	19	Anger—usefulness	9	Long—trains	2
Man—ocean	19	Carpet—coach	19	Religion—godliness	2
Deep—medicines	19	Girl—finery	19	Whiskey—drunkenness	
Soft—accidental	19	High—fortifications	19	Child—joyfulness	2
Eating—vaccination	19	Working—materials	19	Bitter—olives	
Mountain—evergreens	17	Sour—pickles		Hammer—nuts	
House—caves	19	Earth—gravitation	2	Thirsty—water	
Black—station	19	Trouble—graphophone	19	City—shopping	
Mutton—operations	19	Soldier—guns		Square—monuments	2
Comfort—money		Cabbage—children	19	Butter—crackers	17
Hand—bandages	10	Hard—inheritance	19	Doctor—medicines	
Short—soldiers	19	Eagle—feathers		Loud—music	
Fruit—dictionary	19	Stomach—envelope	19	Thief—detectives	2
Butterfly—storehouse	19	Stem—roots		Lion—cages	2
Smooth—vegetables	18	Lamp—oil		Joy—home	
Command—Bible		Dream—fairies	17	Bed—restfulness	2
Chair—histories	14	Yellow—lemons	2	Heavy—expressage	17
Sweet—farewells	19	Bread—jams	17	Tobacco—cigars	
Whistle—ammunition	19	Justice—repentance	17	Baby—carriage	
Woman—foreign	19	Boy—clothes		Moon—light	
Cold—armory	19	Light—lanterns	17	Scissors—goods	
Slow—St. Petersburg	19	Health—joys	2	Quiet—peacefulness	
Wish—wealth		Bible—heaven		Green—vegetables	
River—revenue	10	Memory—head		Salt—water	
White—purity		Sheep—pastures		Street—stones	
Beautiful—colonial	19	Bath—cleanliness		King—crown	
Window—shutters		Cottage—home		Cheese—knife	
Rough—planes	2	Swift—rapids	2	Blossom—plants	2
Citizen—naturalization		Blue—truth		Afraid—enemies	17
Foot—carriage	19	Hungry—appetite			
Spider—remedies	19	Priest—saintliness	17		

CASE No. 6457.—C. G. Depressive attack. 36 individual reactions of which 9 are classed as normal and 20 as unclassified; among the latter several seem to be incoherent.

Table—fish	17	Needle—sewing	9	Ocean—briny	19
Dark—boat		Red—man	19	Head—hard	
Music—water	18	Sleep—pond	19	Stove—black	
Sickness—tank	18	Anger—hatred		Long—grass	
Man—horse		Carpet—tacks		Religion—thinking	1
Deep—ocean		Girl—floor	13	Whiskey—Kentucky	
Soft—egg		High—mountain		Child—carriage	
Eating—beans	17	Working—dog	19	Bitter—pickles	
Mountain—grass		Sour—milk		Hammer—nails	
House—roof		Earth—mud		Thirsty—wanting	
Black—bath	10	Trouble—radiator	19	City—New York	
Mutton—butcher		Soldier—cannon		Square—base	17
Comfort—cigar	17	Cabbage—vegetable		Butter—cow	
Hand—shoes	19	Hard—wood		Doctor—carriage	
Short—baseball	19	Eagle—quick	19	Loud—hall	19
Fruit—orange		Stomach—flesh		Thief—prison	
Butterfly—elephant	19	Stem—pipe		Lion—cage	
Smooth—glass		Lamp—burn		Joy—automobile	
Command—general		Dream—thinking	1	Bed—iron	
Chair—kitchen	17	Yellow—mice	19	Heavy—lead	
Sweet—cake	17	Bread—baker		Tobacco—weed	
Whistle—bird		Justice—equality		Baby—rocker	
Woman—door	19	Boy—young		Moon—sky	
Cold—ice		Light—green	17	Scissors—laundry	19
Slow—cat	19	Health—art	19	Quiet—peaceful	
Wish—bed	19	Bible—preacher		Green—engine	19
River—trout	17	Memory—return	19	Salt—grocer	19
White—paint		Sheep—fold		Street—Lincoln	17
Beautiful—monkey	19	Bath—water		King—Spain	
Window—bars		Cottage—house		Cheese—baker	19
Rough—rowdy		Swift—fleeting	2	Blossom—flower	
Citizen—policeman		Blue—dark		Afraid—going	2
Foot—fine	9	Hungry—thirst			
Spider—insect		Priest—elephant	15		

INVOLUNTIONAL MELANCHOLIA; ALCOHOLIC DEMENTIA; SENILE DEMENTIA.

There are so few cases of these psychoses in our series that we can say but little concerning their associational disorders.

In Table V. we show all the types of reactions given by each subject.

We have not observed in our cases of *involutional melancholia* any undue tendency to give individual reactions. The records are either perfectly normal or slightly abnormal in that they show an increase of the non-specific (common) reactions. In this respect they resemble strongly the records obtained from some cases of manic-depressive insanity. This similarity is of interest in connection with other evidence, recently brought to light,¹ showing that involutional melancholia is closely related to manic-depressive insanity, if not identical with it.

¹G. L. Dreyfus. Die Melancholie ein Zustandsbild des manisch-depressiven Irreseins. 1907.

TABLE V.

TYPES OF REACTION.	Involutional Melancholia.						Alcoholic Dementia.						Senile Dementia.					
	Case No. 6207.	Case No. 4818.	Case No. 6480.	Case No. 6368.	Case No. 6077.	Case No. 4812.	Case No. 6686.	Case No. 6369.	Case No. 6957.	Case No. 6469.	Case No. 61009.	Case No. 6418.	Case No. 6171.	Case No. 5887.	Case No. 6688.	Case No. 5788.		
<i>Common reactions:</i>																		
Specific reactions.....	86	92	92	83	86	83	78	90	79	76	77	80	46	72	71	32	77	
Non-specific reactions	13	2	12	1	9	4	6	8	11	10	8	3	16	16	8	..	3	
<i>Doubtful reactions.</i>	1	2	4	1	1	2	2	3	1	2	5	3	3	7	..	6	..	
<i>Individual reactions:</i>																		
Normal reactions.....																		
Derivatives of stimulus words																		
Non specific reactions																		
Sound reactions (words)																		
Sound reactions (neologisms)																		
Word complements																		
Particles of speech																		
Association to preceding stimulus																		
Association to preceding reaction																		
Repetition of preceding stimulus																		
Repetition of previous stimulus																		
Repetition of preceding reaction																		
Repetition of previous reaction																		
Reaction repeated five times																		
Reaction without sound relation.....																		
Neologisms without classification.....																		
Unclassified.....																		
Total individual reactions.....	0	4	6	6	7	8	9	13	6	8	10	12	14	39	12	15	18	20

CASE No. 4818.—S. M. Normal record.

Table—wood	Needle—instrument	Ocean—water
Dark—black	Red—color	Head—body
Music—noise	Sleep—repose	Stove—fire
Sickness—illness	Anger—temper	Long—distance
Man—being	Carpet—rug	Religion—creed
Deep—depth	Girl—sex	Whiskey—liquor
Soft—mushy	High—elevation	Child—infant
Eating—devouring	Working—employment	Bitter—sour
Mountain—hill	Sour—bitter	Hammer—tool
House—residence	Earth—clay	Thirsty—dry
Black—color	Trouble—anxiety	City—town
Mutton—meat	Soldier—military	Square—block
Comfort—luxury	Cabbage—vegetable	Butter—food
Hand—body	Hard—substance	Doctor—physician
Short—abrupt	Eagle—bird	Loud—noisy
Fruit—oranges	Stomach—body	Thief—burglar
Butterfly—insect	Stem—flower	Lion—animal
Smooth—even	Lamp—light	Joy—happiness
Command—order	Dream—imagination	Bed—cot
Chair—article	Yellow—color	Heavy—weight
Sweet—taste	Bread—wheat	Tobacco—weed
Whistle—noise	Justice—credit	Baby—infant
Woman—sex	Boy—child	Moon—light
Cold—temperature	Light—sun	Scissors—instrument
Slow—dull	Health—condition	Quiet—noiseless
Wish—desire	Bible—book	Green—color
River—water	Memory—remembrance	Salt—seasoning
White—color	Sheep—lamb	Street—block
Beautiful—sky	Bath—bathing	King—ruler
Window—glass	Cottage—house	Cheese—food
Rough—uneven	Swift—rapid	Blossom—flower
Citizen—representative	Blue—color	Afraid—fear
Foot—end	Hungry—desire	
Spider—insect	Priest—minister	

CASE No. 6207.—T. S.

No individual reactions; 13 non-specific reactions.

Table—furniture	Needle—instrument	Ocean—water
Dark—color	Red—color	Head—person
Music—fiddle	Sleep—bed	1
Sickness—bed	Anger—irritable	
Man—person	Carpet—rug	
Deep—water	Girl—person	1
Soft—pliable	High—elevation	2
Eating—cake	Working—try	
Mountain—high	Sour—bitter	
House—bricks	Earth—sand	
Black—color	Trouble—anxiety	
Mutton—meat	Soldier—person	1
Comfort—easy	Cabbage—plant	
Hand—limb	Hard—stone	
Short—small	Eagle—bird	
Fruit—vegetable	Stomach—person	1
Butterfly—insect	Stem—apple	
Smooth—level	Lamp—light	
Command—control	Dream—sleep	
Chair—sit	Yellow—color	
Sweet—nice	Bread—flour	
Whistle—noise	Justice—equal	
Woman—person	Boy—child	
Cold—atmosphere	Light—gas	
Slow—easy	Health—doctor	
Wish—something	Bible—Scripture	
River—stream	Memory—thought	1
White—color	Sheep—animal	
Beautiful—nice	Bath—water	
Window—glass	Cottage—house	
Rough—unpleasant	Swift—quick	
Citizen—person	Blue—color	
Foot—limb	Hungry—want	
Spider—insect	Priest—preach	

CASE No. 5719.—A. W. S. 5 individual reactions; 12 non-specific reactions.

Table—stand	Needle—pointed	Ocean—water
Dark—color	Red—blood	Head—brains
Music—happy	Sleep—rest	Stove—heat
Sickness—ill	Anger—riled	Long—measurement
Man—human	Carpet—covering	Religion—good
Deep—thought	Girl—child	Whiskey—alcohol
Soft—touch	High—air	Child—baby
Eating—appetite	Working—ambitious	Bitter—taste
Mountain—ground	Sour—taste	Hammer—knock
House—shelter	Earth—ground	Thirsty—water
Black—color	Trouble—thought	City—New York
Mutton—lamb	Soldier—command	Square—box
Comfort—warm	Cabbage—vegetable	Butter—milk
Hand—touch	Hard—blow	Doctor—help
Short—small	Eagle—bird	Loud—noise
Fruit—taste	Stomach—body	Thief—burglar
Butterfly—beauty	Stem—pipe	Lion—animal
Smooth—level	Lamp—light	Joy—well
Command—obey	Dream—thought	Bed—rest
Chair—rest	Yellow—purple	Heavy—load
Sweet—good	Bread—food	Tobacco—nicotine
Whistle—noise	Justice—law	Baby—joy
Woman—female	Boy—male	Moon—light
Cold—chilled	Light—lamp	Scissors—cutting
Slow—move	Health—soul	Quiet—rest
Wish—think	Bible—Scriptures	Green—color
River—water	Memory—thought	Salt—sand
White—color	Sheep—lamb	Street—crossing
Beautiful—nice	Bath—cleanliness	King—ruler
Window—glass	Cottage—house	Cheese—luxury
Rough—push	Swift—quick	Blossom—flower
Citizen—man	Blue—color	Afraid—fright
Foot—body	Hungry—appetite	Priest—scholar
Spider—insect		2

CASE No. 5635. J. D. 13 individual reactions, of which 6 are classed as normal, 1 particle, 6 unclassified, mostly obviously normal.

Table—eating	Needle—sticking	Ocean—bathing
Dark—night	Red—danger	Head—mind
Music—amusement	Sleep—rest	Stove—fire
Sickness—distress	Anger—right	Long—hours
Man—working	Carpet—house	Religion—church
Deep—sorrow	Girl—out	Whiskey—drinking
Soft—easy	High—air	Child—home
Eating—supper	Working—labor	Bitter—sour
Mountain—pleasure	Sour—bitter	Hammer—working
House—home	Earth—ground	Thirsty—dry
Black—grief	Trouble—worry	City—New York
Mutton—butchers	Soldier—man	Square—block
Comfort—home	Cabbage—farmer	Butter—cow
Hand—shake	Hard—bath	Doctor—hospital
Short—baseball	Eagle—birds	Loud—speaking
Fruit—eating	Stomach—body	Thief—sentence
Butterfly—field	Stem—pipe	Lion—animal
Smooth—soft	Lamp—burn	Joy—pleasure
Command—oblige	Dream—thinking	Bed—sleeping
Chair—seat	Yellow—color	Heavy—weight
Sweet—flowers	Bread—eating	Tobacco—smoking
Whistle—fire	Justice—peace	Baby—home
Woman—home	Boy—soldier	Moon—night
Cold—winter	Light—day	Scissors—cutting
Slow—easy	Health—happy	Quiet—alone
Wish—home	Bible—books	Green—color
River—dock	Memory—good	Salt—eating
White—day	Sheep—lamb	Street—walking
Beautiful—handsome	Bath—washing	King—William
Window—glass	Cottage—house	Cheese—milk
Rough—wagon	Swift—quick	Blossom—flower
Citizen—voter	Blue—color	Afraid—fright
Foot—walking	Hungry—eating	
Spider—web	Priest—church	

Our cases of *alcoholic dementia* are clinically without evidences of disturbance of flow of thought. The dementia consists mainly

in impairment or loss of the power of retention, with resulting amnesia for recent occurrences, and temporal disorientation. The records are either normal or show but slight departures from normal.

CASE No. 6369.—J. S. Slight deterioration.

Table—eat	Needle—sticking	19	Ocean—vessels	2
Dark—night	Red—color	1	Head—knowledge	
Music—enjoyment	Sleep—happy	1	Stove—burn	
Sickness—sadness	Anger—annoyance		Long—time	
Man—work	Carpet—walk		Religion—faith	
Deep—hole	Girl—school		Whiskey—drink	
Soft—feathers	High—skies		Child—infant	17
Eating—appetite	Working—labor		Bitter—unkind	
Mountain—hill	Sour—lemon		Hammer—nail	
House—live	Earth—walk		Thirsty—dry	
Black—dark	Trouble—annoyance		City—inhabitants	
Mutton—eat	Soldier—army		Square—brick	
Comfort—pleasant	Cabbage—eat		Butter—eat	
Hand—work	Hard—stone		Doctor—cure	
Short—story	Eagle—fly		Loud—noise	
Fruit—eat	Stomach—victuals	17	Thief—steal	
Butterfly—annoyance	Stem—pipe		Lion—animal	
Smooth—iron	Lamp—burn		Joy—happiness	1
Command—officer	Dream—sleep		Bed—lay	
Chair—sit	Yellow—orange		Heavy—feeling	
Sweet—nice	Bread—eat	1	Tobacco—chew	2
Whistle—pleasure	Justice—person		Baby—nurse	
Woman—pleasure	Boy—school		Moon—bright	
Cold—annoyance	Light—see		Scissors—cut	
Slow—car	Health—comfort		Quiet—ease	
Wish—like	Bible—read		Green—flower	
River—water	Memory—recollection		Salt—taste	
White—sack	Sheep—eat		Street—walking	
Beautiful—house	Bath—cleanliness		King—control	19
Window—look	Cottage—live		Cheese—eat	
Rough—unpleasant	Swift—go		Blossom—flower	
Citizen—man	Blue—color		Afraid—nervousness	
Foot—walk	Hungry—eat			
Spider—annoyance	Priest—confession			

CASE No. 6418.—J. R. Marked deterioration.

Table—mahogany	Needle—darning		Ocean—Pacific	17
Dark—dawn	Red—apples		Head—oval	19
Music—harp	Sleep—plenty		Stove—polish	
Sickness—none	Anger—mistake	17	Long—forever	12
Man—white	Carpet—floor		Religion—Protestant	
Deep—unfathomable	Girl—pretty	1	Whiskey—none	
Soft—silken	High—ordinary	19	Child—none	5
Eating—good	Working—eight	12	Bitter—sweet	
Mountain—high	Sour—nonsense	19	Hammer—no	12
House—place	Earth—fruits	2	Thirsty—no	
Black—color	Trouble—little		City—New York	
Mutton—cooked	Soldier—patriot		Square—compass	
Comfort—rest	Cabbage—garden		Butter—sweet	
Hand—clasp	Hard—wood		Doctor—cure	
Short—small	Eagle—high		Loud—quietly	2
Fruit—apples	Stomach—leave	19	Thief—jail	
Butterfly—buttercups	Stem—stalk		Lion—brave	
Smooth—iron	Lamp—kerosene		Joy—peacefulness	2
Command—home	Dream—happy	1	Bed—good	1
Chair—ebony	Yellow—aster	17	Heavy—no	
Sweet—potatoes	Bread—white		Tobacco—yes	12
Whistle—song	Justice—right		Baby—none	6
Woman—pretty	Boy—white	15	Moon—shines	
Cold—depressed	Light—white		Scissors—uncut	2
Slow—process	Health—good	1	Quiet—peaceful	
Wish—home	Bible—puzzled	19	Green—grass	
River—Mississippi	Memory—bad	1	Salt—water	
White—wings	Sheep—cheviot	17	Street—Queen	17
Beautiful—palace	Bath—marble	17	King—unknown	19
Window—clear	Cottage—story	17	Cheese—Stilton	17
Rough—no	Swift—fast		Blossom—cherry	
Citizen—patriot	Blue—waist	17	Afraid—not	
Foot—heath	Hungry—not			
Spider—none	Priest—confessor			

We reproduce in full the record obtained from one of our cases of *senile dementia*.

CASE No. 5788.—E. S.

Table—cat	6	Needle—pin	.....	Ocean—river	.....
Dark—night	.....	Red—white	.....	Head—life	.....
Music—cat	2	Sleep—eyes	.....	Stove—fire	.....
Sickness—cat	5	Anger—mad	.....	Long—short	.....
Man—mouse	18	Carpet—cloth	.....	Religion—Catholic	.....
Deep—well	.....	Girl—boy	.....	Whiskey—drink	.....
Soft—sack	19	High—low	.....	Child—boy	.....
Eating—well	.....	Working—sewing	.....	Bitter—sweet	.....
Mountain—hill	.....	Sour—sweet	.....	Hammer—noise	.....
House—castle	.....	Earth—clay	.....	Thirsty—drink	.....
Black—dog	.....	Trouble—cold	15	City—New York	.....
Mutton—sheep	.....	Soldier—man	1	Square—Marion	17
Comfort—lamb	13	Cabbage—spinach	.....	Butter—cow	.....
Hand—chicken	18	Hard—cat	6	Doctor—W.	17
Short—light	19	Eagle—bird	.....	Loud—noise	.....
Fruit—apple	.....	Stomach—belly	.....	Thief—steals	.....
Butterfly—fly	.....	Stem—pike	17	Lion—beast	.....
Smooth—iron	.....	Lamp—globe	.....	Joy—happy	1
Command—obey	.....	Cream—eggs	.....	Bed—mattress	.....
Chair—stool	.....	Yellow—flower	.....	Heavy—load	.....
Sweet—sugar	.....	Bread—flour	.....	Tobacco—smoke	.....
Whistle—lump	14	Justice—right	.....	Baby—boy	.....
Woman—man	1	Boy—cat	6	Moon—shine	.....
Cold—shiver	.....	Light—lamp	.....	Sabers—cut	.....
Slow—cold	7	Health—cough	17	Quiet—noisy	.....
Wish—push	10	Rabbit—book	.....	Green—color	.....
River—pond	.....	Memory—mind	.....	Salt—bitter	.....
White—cat	.....	Sheep—lamb	.....	Street—place	.....
Beautiful—cat	5	Bath—water	.....	King—rule	.....
Window—glass	.....	Cottage—house	.....	Cheese—taste	.....
Rough—tight	10	Swift—quick	.....	Blossom—flower	.....
Citizen—tough	.....	Blue—color	.....	Afraid—trouble	.....
Foot—shoe	.....	Hungry—eat	.....	.....	.....
Spider—clock	10	Frient—energyman	.....	.....	.....

§ 8. PATHOLOGICAL REACTIONS FROM NORMAL SUBJECTS.

Mental disorders do not always so manifest themselves as to incapacitate the subject for his work or to necessitate his sequestration in a hospital for the insane. It is, therefore, not surprising that in applying the association test to over a thousand subjects selected at random we have obtained a small number of test records which show various types of abnormal reactions. Among the subjects who furnished such records some are described as eccentric, taciturn, or dull, while others are apparently normal but come of neuropathic stock. A few of them are persons wholly unknown to us.

We reproduce in full several records from the normal series, containing abnormal reactions.

CONSECUTIVE No. 746.—State hospital attendant. Efficient in his work but is generally regarded to have married very foolishly. Sound reactions; numerous unclassified reactions.

Table—brought	19	Needle—knee	10	Ocean—oar	10
Dark—some	19	Red—roam	19	Head—him	12
Music—leaf	19	Sleep—sorrow	19	Stove—still	10
Sickness—water	19	Anger—August	19	Long—left	15
Man—book	19	Carpet—covered	2	Religion—rest	19
Deep—desk	19	Girl—great	9	Whiskey—whirl	15
Soft—ground		High—his	12	Child—charge	19
Eating—bark	19	Working—map	19	Bitter—bought	10
Mountain—tree		Sour—slur	10	Hammer—hemp	10
House—paper	19	Earth—eat	19	Thirsty—Thursday	10
Black—light		Trouble—through	12	City—salt	10
Mutton—horse	13	Soldier—soldier	10	Square—squirrel	10
Comfort—hat	19	Cabbage—cart	19	Butter—bread	
Hand—sick	13	Hard—him	12	Doctor—daisy	19
Short—swallow	19	Eagle—earth	13	Loud—lark	19
Fruit—mass	19	Stomach—stall	10	Thief—twist	19
Butterfly—leaf	15	Stem—stair	10	Lion—lesson	10
Smooth—wing	13	Lamp—left	19	Joy—jar	19
Command—man	1	Dream—dread		Bed—beard	10
Chair—left	19	Yellow—waist	15	Heavy—heath	10
Sweet—sick	2	Bread—book	15	Tobacco—toboggan	10
Whistle—whirl	10	Justice—gem	19	Baby—bird	15
Woman—where	12	Boy—bird	19	Moon—mill	19
Cold—coal		Light—left	10	Scissors—setters	10
Slow—some	15	Health—heart	17	Quiet—quart	10
Wish—whirl	15	Bible—base	19	Green—great	9
River—rice	19	Memory—moth	19	Salt—sorrow	10
White—waist		Sheep—shril	19	Street—stem	10
Beautiful—brought	15	Bath—bend	19	King—cart	15
Window—women	10	Cottage—cart	10	Cheese—chart	19
Rough—row	19	Swift—swell	10	Blossom—bed	19
Citizen—str	10	Blue—beard	11	Afraid—frill	10
Foot—fall	19	Hungry—heart	15		
Spider—spice	10	Priest—path	19		

CONSECUTIVE No. 220.—Laundryman in State hospital. Nothing abnormal has ever been observed in his case. Numerous perseverations.

Table—house		Needle—thread	19	Ocean—rice	19
Park—range	19	Red—spool	18	Head—eyes	
Music—cats		Sleep—machine	18	Stove—nose	18
Sickness—dog	18	Anger—picture	19	Long—mouth	18
Man—barn	19	Carpet—bed	17	Religion—legs	18
Deep—hollow		Girl—bureau	18	Whiskey—arms	18
Soft—apple		High—oilcloth	18	Child—elbows	18
Eating—cranberry	17	Working—pen	19	Bitter—day	19
Mountain—water	17	Sour—ink	18	Hammer—nails	
House—pig	19	Earth—paper	18	Thirsty—saw	13
Black—rats	18	Trouble—chair	19	City—plane	18
Mutton—mice	2	Soldier—table	14	Square—chisel	18
Comfort—sheep	13	Cabbage—beet	18	Butter—file	18
Hand—lamb	14	Hard—cauliflower	18	Doctor—duck	10
Short—birds	19	Eagle—potatoes	18	Lond—goose	18
Fruit—peach		Stomach—beans	17	Thief—robber	
Butterfly—pears	18	Stem—plum	17	Lion—tiger	
Smooth—grapes	18	Lamp—wick		Joy—bear	13
Command—nut	18	Dream—oil	13	Bed—leopard	18
Chair—bureau		Yellow—stick	19	Heavy—tiger	15
Sweet—broom	19	Bread—stone	18	Tobacco—smoke	
Whistle—violin	19	Justice—dirt	18	Baby—pipe	18
Woman—man	1	Boy—street		Moon—star	
Cold—child	10	Light—match		Scissors—sharp	
Slow—infant	14	Health—sickness		Quiet—noisy	
Wish—night	19	Bible—book		Green—blue	
River—dark	14	Memory—leaf	18	Salt—yellow	18
White—steamboat	17	Sheep—wool		Street—green	14
Beautiful—tugboat	18	Bath—water		King—purple	14
Window—yacht	18	Cottage—people	1	Cheese—axe	19
Rough—ferry	18	Swift—fast		Blossom—handle	19
Citizen—water	13	Blue—residence	19	Afraid—barn	19
Foot—egg	13	Hungry—beef	17		
Spider—fly		Priest—clergyman			

CONSECUTIVE No. 255.—State hospital attendant. Efficient, but unusually taciturn and seclusive. Sound reactions.

Table-linen	Needle-work	1	Ocean-apple	19
Dark-sunshine	Red-robe	19	Head-heart	1
Music-song	Sleep-soap	10	Stove-strap	10
Sickness-Saturday	Anger-angel	19	Long-love	15
Man-manager	Carpet-carriage	19	Religion-belief	15
Deep-dark	Girl-guide	19	Whiskey-whisk broom	10
Soft-sorrowful	High-heart	10	Child-chap	10
Eating-eighty	Working-worthy	10	Bitter-butter	10
Mountain-miner	Sour-satchel	19	Hammer-habit	19
House-heart	Earth-early	10	Thirsty-thirty	10
Black-blue	Trouble-trout	19	City-soap	15
Mutton-mountain	Soldier-socket	19	Square-squirrel	10
Comfort-company	Cabbage-currant	17	Butter-bank	19
Hand-happy	Hard-harmful	10	Doctor-dentist	15
Short-slow	Eagle-early	15	Loud-laugh	15
Fruit-froth	Stomach-stable	10	Thief-thump	19
Butterfly-butter	Stem-stand	10	Lion-lump	19
Smooth-smoke	Lamp-light	10	Joy-jump	19
Command-company	Dream-drunk	10	Bed-bank	15
Chair-chap	Yellow-lustre	19	Heavy-happy	10
Sweet-slow	Bread-brand	10	Tobacco-tub	19
Whistle-whip	Justice-judgment	10	Baby-bundle	10
Woman-worried	Boy-butter	15	Moon-mantle	10
Cold-cow	Light-love	19	Scissors-Saturday	15
Slow-slap	Health-help	10	Quiet-quarter	10
Wish-water	Bible-book	10	Green-drought	19
River-rubbed	Memory-mental	10	Salt-Saturday	10
White-wash	Sheep-shop	10	Street-straight	10
Beautiful-bounty	Bath-bandage	10	King-cattle	19
Window-light	Cottage-cot	10	Cheese-captain	19
Rough-roguish	Swift-swan	10	Blossom-bandage	15
Citizen-sight-seeing	Blue-black	10	Afraid-flattered	10
Foot-fool	Hungry-height	10		
Spider-span	Priest-house	10		

CONSECUTIVE No. 442.—Nothing abnormal has ever been suspected in the case of this subject; mother eccentric; sister insane. Sound reactions.

Table-stable	Needle-needless	10	Ocean-over	12
Dark-dreary	Red-color	10	Head-large	1
Music-joy	Sleep-sleet	10	Stove-stone	10
Sickness-silliness	Anger-rough	10	Long-heavy	19
Man-manner	Carpet-carpenter	10	Religion-goodness	1
Deep-dreary	Girl-going	19	Whiskey-strong	1
Soft-sooth	High-air	10	Child-small	1
Eating-evening	Working-toiling	10	Bitter-butter	10
Mountain-morning	Sour-shower	10	Hammer-hard	10
House-help	Earth-eating	19	Thirsty-thrifty	10
Black-dark	Trouble-loneliness	17	City-seeing	10
Mutton-mitten	Soldier-solid	10	Square-squirrel	10
Comfort-come	Cabbage-carrying	19	Butter-bitter	10
Hand-handsome	Hard-hardly	8	Doctor-dark	10
Short-small	Eagle-eating	10	Loud-noisy	10
Fruit-first	Stomach-starch	10	Thief-stealing	10
Butterfly-butter	Stem-step	2	Lion-eating	10
Smooth-sooth	Lamp-glass	10	Joy-joyous	8
Command-come	Dream-dreary	12	Bed-sleep	10
Chair-air	Yellow-yonder	12	Heavy-weightful	4
Sweet-good	Bread-bed	10	Tobacco-cocoa	10
Whistle-music	Justice-juice	10	Baby-boys	2
Woman-wonder	Boy-hall	10	Moon-moo	3
Cold-freezing	Light-likeness	10	Scissors-successors	10
Slow-snow	Health-help	10	Quiet-easy	10
Wish-wind	Bible-book	10	Green-grass	10
River-riffle	Memory-memorial	2	Salt-simmer	19
White-wait	Sheep-sleep	10	Street-steep	10
Beautiful-handsome	Bath-battle	10	King-kingdom	10
Window-light	Cottage-cotton	10	Cheese-squeeze	10
Rough-harsh	Swift-fast	10	Blossom-blooming	10
Citizen-city	Blue-blind	10	Afraid-Africa	10
Foot-walk	Hungry-hurry	10		
Spider-creep	Priest-prince	10		

CONSECUTIVE No. 314.—School teacher. Efficient; described as very silent. Unclassified reactions, due mostly to distraction.

Table—cat	19	Needle—good	9	Ocean—boat
Dark—no	12	Red—bad	9	Head—hat
Music—will	19	Sleep—hinge	19	Stove—ashes
Sickness—chair	19	Anger—will	15	Long—short
Man—table	6	Carpet—paper	6	Religion—peace
Deep—floor	14	Girl—chair	15	Whiskey—bottle
Soft—paper	6	High—table	6	Child—dress
Eating—wood	19	Working—cane	15	Bitter—sour
Mountain—chair	15	Sour—floor	15	Hammer—teeth
House—window		Earth—ceiling	18	Thirsty—dry
Black—wall		Trouble—chain	19	City—good
Mutton—sky	19	Soldier—desk	19	Square—wood
Comfort—air	18	Cabbage—paper		Butter—best
Hand—table		Hard—table		Doctor—shoes
Short—paper	6	Eagle—flower	15	Loud—music
Fruit—sweeping	19	Stomach—match	19	Thief—notes
Butterfly—room	18	Stem—match		Lion—strings
Smooth—working	2	Lamp—table		Joy—happy
Command—stone	19	Dream—chair	14	Bed—wish
Chair—machine	19	Yellow—cane	18	Heavy—lead
Sweet—radiator	19	Bread—flour		Tobacco—plant
Whistle—clock	19	Justice—peace		Baby—good
Woman—cane	19	Boy—window	15	Moon—paper
Cold—flower	19	Light—wall	18	Scissors—straw
Slow—cord		Health—floor	18	Quiet—hoop
Wish—marriage	2	Bible—house	18	Green—rope
River—chimney	19	Memory—paper	6	Salt—dish
White—wheel	19	Sheep—dress	19	Street—dirt
Beautiful—cane	15	Bath—clothes	18	King—bucket
Window—pot	19	Cottage—earth	19	Cheese—plate
Rough—grass	19	Swift—sky	18	Blossom—plant
Citizen—paper		Blue—trees	19	Afraid—sweeping
Foot—closet	19	Hungry—leaves	18	
Spider—awning	19	Priest—bark	18	

CONSECUTIVE No. 216.—State hospital attendant. Incompetent, dull. Numerous non-specific reactions.

Table—rolling	19	Needle—small	1	Ocean—wide
Dark—swim	19	Red—dark		Head—large
Music—playing		Sleep—easy		Stove—black
Sickness—riding	19	Anger—bad	1	Long—wide
Man—walk		Carpet—small	1	Religion—good
Deep—singing	19	Girl—short	15	Whiskey—strong
Soft—light		High—long		Child—small
Eating—sleep		Working—good	1	Bitter—bad
Mountain—low		Sour—bad	1	Hammer—small
House—small	1	Earth—large	1	Thirsty—bad
Black—dark		Trouble—bad	1	City—big
Mutton—lean	19	Soldier—good	1	Square—long
Comfort—good	1	Cabbage—small	6	Butter—good
Hand—small	1	Hard—apples		Doctor—good
Short—small	1	Eagle—small	6	Loud—hearty
Fruit—taste		Stomach—good	1	Thief—bad
Butterfly—beautiful	1	Stem—short		Lion—bad
Smooth—long	6	Lamp—bright		Joy—happy
Command—immediate	2	Dream—good	1	Red—easy
Chair—small	6	Yellow—light		Heavy—stone
Sweet—clear	19	Bread—good	1	Tobacco—strong
Whistle—long		Boy—small	1	Baby—small
Woman—small	1	Justice—good	1	Moon—large
Cold—long	6	Light—clear		Scissors—sharp
Slow—write	2	Health—good	1	Quiet—baby
Wish—quick	10	Bible—true		Green—dark
River—long		Memory—good	1	Salt—strong
White—clean		Sheep—many		Street—wide
Beautiful—nice	1	Bath—good	1	King—high
Window—big	19	Cottage—large	1	Cheese—good
Rough—bad	1	Swift—fast		Blossom—apples
Citizen—short	19	Blue—dark		Afraid—he
Foot—small	1	Hungry—long	6	
Spider—small	1	Priest—true	19	

CONSECUTIVE No. 318.—School boy. Non-specific reactions.

Table—board	Needle—sharp	Ocean—big
Dark—night	Red—crimson	Head—little
Music—sound	Sleep—wake	Stove—hot
Sickness—pleasantness	Anger—mad	Long—distance
Man—people	Carpet—floor	Religion—good
Deep—river	Girl—good	Whiskey—bad
Soft—cat	High—tall	Child—cute
Eating—pleasantness	Working—sleep	Bitter—good
Mountain—high	Sour—bad	Hammer—hard
House—home	Earth—ground	Thirsty—hard
Black—dark	Trouble—bad	City—good
Mutton—good	Soldier—good	Square—round
Comfort—pleasure	Cabbage—bad	Butter—soft
Hand—foot	Hard—soft	Doctor—good
Short—little	Eagle—bird	Loud—noisy
Fruit—good	Stomach—ache	Thief—good
Butterfly—pretty	Stem—slender	Lion—big
Smooth—soft	Lamp—light	Joy—good
Command—go	Dream—good	Bed—comfortable
Chair—sit	Yellow—pretty	Heavy—light
Sweet—good	Bread—good	Tobacco—bad
Whistle—noise	Justice—good	Baby—pretty
Woman—pretty	Boy—fun	Moon—cute
Cold—had	Light—we	Sissors—sharp
Slow—quick	Health—happiness	Quiet—loud
Wish—good	Bible—good	Green—pretty
River—deep	Memory—good	Salt—good
White—snow	Sheep—pretty	Street—narrow
Beautiful—pretty	Bath—good	King—good
Window—look	Cottage—pretty	Cheese—good
Rough—even	Swift—quick	Blossom—pretty
Citizen—good	Blue—yellow	Afraid—scared
Foot—hand	Hungry—eat	
Spider—bite	Priest—good	

CONSECUTIVE No. 234.—School boy. Non-specific reactions.

Table—chair	Needle—thick	Ocean—water
Dark—cold	Red—cow	Head—large
Music—sweet	Sleep—dreams	Stove—fire
Sickness—hard	Anger—very	Long—snake
Man—wise	Carpet—pretty	Religion—Jesus
Deep—dark	Girl—small	Whiskey—temperance
Soft—sweet	High—tree	Child—healthy
Eating—drinking	Working—hard	Bitter—apple
Mountain—snow	Sour—bitter	Hammer—mail
House—great	Earth—great	Thirsty—water
Black—horse	Trouble—hard	City—houses
Mutton—good	Soldier—brave	Square—desk
Comfort—health	Cabbage—good	Butter—yellow
Hand—foot	Hard—stone	Doctor—medicine
Short—fat	Eagle—great	Loud—hush
Fruit—good	Stomach—weak	Theft—wicked
Butterfly—pretty	Stem—watch	Idon—fierce
Smooth—hard	Lamp—pretty	Joy—happiness
Command—general	Dream—sweet	Bed—rest
Chair—soft	Yellow—buttercup	Heavy—tone
Sweet—good	Bread—flour	Tobacco—dirty
Whistle—loud	Justice—man	Baby—small
Woman—large	Boy—gun	Moon—sky
Cold—dreary	Light—bright	Sissors—sharp
Slow—hard	Health—care	Quiet—lonely
Wish—fairy	Bible—holy	Green—sour
River—large	Memory—poor	Salt—cows
White—snow	Sheep—pretty	Street—people
Beautiful—woman	Bath—nice	King—rich
Window—large	Cottage—low	Cheese—yellow
Rough—hard	Swift—stream	Blossom—pretty
Citizen—good	Blue—bluebird	Afraid—fear
Foot—small	Hungry—tired	
Spider—ugly	Priest—church	

CONSECUTIVE No. 809.—Lawyer. 28 individual reactions, of which 14 are classed as normal; 10 are unclassified, most of which are also obviously normal.

Table—chair	Needle—tailor	Priest—surplice
Dark—candle	Red—flannel	Ocean—ship
Music—girl	Sleep—	Head—hair
Sickness—doctor	potassium bromide	Stove—shovel
Man—woman	Anger—teacher	Long—pole
Deep—swimming	Carpet—tack	Religion—Abraham
Soft—hand	Girl—belt	Whiskey—Kentucky
Eating—Reisenweber	High—pole	Child—baby
Mountain—Kipling	Working—laborer	Bitter—pepper
House—mortgage	Sour—apple	Hammer—nail
Black—spectrum	Earth—Columbus	Thirsty—lemonade
Mutton—pig	Trouble—lawyer	City—Manhattan
Comfort—chair	Soldier—gun	Square—Washington
Hand—ring	Cabbage—plantation	Butter—salt
Short—tall	Hard—brick	Doctor—nurse
Fruit—banana	Eagle—feathers	Loud—hammer
Butterfly—color	Stomach—juice	Thief—jewelry
Smooth—sphere	Stem—leaf	Lion—Androcles
Command—soldier	Lamp—light	Joy—automobile
Chair—teacher	Dream—pillow	Bed—shoes
Sweet—apple	Yellow—lemon	Heavy—Flannigan
Whistle—policeman	Bread—crust	Tobacco—pipe
Woman—hat	Justice—judge	Baby—wife
Cold—thermometer	Boy—pants	Moon—man
Slow—invalid	Light—gas	Scissors—cut
Wish—million	Health—medicine	Quiet—demure
River—Hudson	Bible—Jacob	Green—eyes
White—Broadway	Memory—brain	Salt—cellar
Beautiful—girl	Sheep—wool	Street—Wall
Window—school	Bath—soap	King—Edward
Rough—ball	Cottage—rod	Cheese—Roquefort
Citizen—justice	Swift—ball	Blossom—field
Foot—shoe	Blue—sky	Afraid—burglar
Spider—insect	Hungry—I	

§ 9. NUMBER OF DIFFERENT WORDS GIVEN AS REACTIONS.

It has been suggested by Fuhrmann¹ that the number of different words given in response to one hundred selected stimulus words may be used as "a fairly reliable measure of the intelligence and degree of education of a patient." The test according to Fuhrmann is applied twice in every case, the interval between the two sittings being at least four weeks. "In very intelligent and well educated persons every 100 stimulus words almost always evokes in the first test 95—100 different associations; in the less intelligent and in the feeble-minded the same associations are more frequently repeated. In the second test with the same stimulus words—which is really much more important than the first, since even persons of inferior intelligence may reach higher numbers in the first test—the difference in the wealth of the stock of representations becomes plainly evident:

¹ Diagnostik und Prognostik der Geisteskrankheiten, p. 93. Leipzig, 1903.

the man of intelligence will not need to draw on the associations which he gave in the first test, but will produce new ones; the feeble-minded subject will, on the contrary, repeat to a greater or lesser extent the associations of the first test." "In general the associational capacity of an adult person may be taken to be from 80 per cent to 90 per cent. Should the number sink below 70 per cent the suspicion of a pathological condition must then arise; and the higher the subject's degree of education the stronger is this suspicion. In the case of an associational capacity of 60 per cent or less no doubt of its pathological significance can remain any longer."

Our results are not strictly comparable with Fuhrmann's, because we have obtained but one test record from each subject; it may be said, however, that the results of a single test in each case do not show any considerable differences, corresponding to education or age, in the variety of responses. Further, dementing psychoses, with the exception of epilepsy, show on the whole no diminution in the number of different reactions, although in individual cases this number falls considerably below the general average; and in such cases the diminution may be dependent upon stereotypy or perseveration, and not necessarily upon reduction in the stock of representations.

It would appear from our results that pathological mental states are apt to manifest themselves by a tendency to give reactions belonging to types of inferior values rather than by diminished variety of responses.

We show in Table VI. the numbers of different responses given by our groups of normal and insane subjects, expressed in figures giving for each group the median and the average.

TABLE VI.

	Med.	Av.
86 normal subjects, common school education; records containing not over 10 individual reactions	85	84.5
66 normal subjects, collegiate education; records containing not over 10 individual reactions	87	86.5
48 normal subjects, school children; records containing not over 10 individual reactions	87	84.9
53 normal subjects; records containing not under 15 individual reactions...	90	88.7
108 cases of dementia praecox	87	84.1
33 cases of paranoid conditions.....	89	86.5
24 cases of epilepsy.....	78½	75.8
32 cases of general paresis.....	84½	82.4
32 cases of manic-depressive insanity.....	87	85.4

§ 10. CO-OPERATION OF THE SUBJECT.

In our work with insane subjects we encountered many cases in which we were unable to obtain satisfactory test records owing to lack of proper co-operation. Some subjects seemed to be either too confused or too demented to be capable of understanding and following the instructions given them. Others were for one reason or another unwilling to co-operate. It is important to distinguish inability from unwillingness to co-operate, since the former indicates in itself an abnormal state of the mind, while the latter is quite often shown by normal persons.

A subject may co-operate to the extent of giving a single word in response to each stimulus word, and yet fail to co-operate in some other particulars.

He may, instead of giving the first word suggested to him by the stimulus, suppress the first word more or less systematically, and give some other word which may seem to him more appropriate. This probably occurs very often, but does not seem to render the results less serviceable for our purpose.

Further, a subject may react by words related not to the stimulus words, but to each other, thus simulating perseveration; or he may react by naming objects within reach of the senses, thus appearing to be distracted; or he may give only sound reactions.

There is, in fact, no type of pathological reactions which a normal person may not be able to produce more or less readily at will, though in the case of incoherent reactions considerable mental effort may be required, and the end may be attained only by regularly rejecting the first and some subsequent words which are suggested by the stimulus.

In view of these considerations we are led to conclude that the association test, as applied by our method, could not be relied upon as a means of detecting simulation of insanity in malingeringers, criminals, and the like.

§ 11. SUMMARY.

The normal range of reaction in response to any of our stimulus words is largely confined within narrow limits.

The frequency tables compiled from test records given by one thousand normal subjects comprise over ninety per cent of the normal range in the average case.

With the aid of the frequency tables and the appendix normal reactions, with a very few exceptions, can be sharply distinguished from pathological ones.

The separation of pathological reactions from normal ones simplifies the task of their analysis, and makes possible the application of a classification based on objective criteria.

By the application of the association test, according to the method here proposed, no sharp distinction can be drawn between mental health and mental disease; a large collection of material shows a gradual and not an abrupt transition from the normal state to pathological states.

In dementia praecox, some paranoid conditions, manic-depressive insanity, general paresis, and epileptic dementia the test reveals some characteristic, though not pathognomonic, associational tendencies.

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It is with pleasure that we acknowledge our indebtedness to the many persons who have assisted us in collecting the data for this work.

About two hundred tests upon normal subjects were made for us by the following persons: Dr. Frederic Lyman Wells, Dr. Jennie A. Dean, Miss Lillian Rosanoff, and Miss Madeleine Wehle.

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30. Window	91	131
26. Wish	89	130
23. Woman	88	129
42. Working	97	133
54. Yellow	103	135

THE FREQUENCY TABLES.

1. TABLE

1 accommodation	2 dine	1 kitchen	1 operating	1 stable
3 article	4 dining	1 lamp	2 ornament	36 stand
1 articles	26 dinner	4 large	1 parlor	3 stool
	5 dish	1 leaf	1 pitcher	1 straight
1 basket	40 dishes	1 leaves	4 plate	1 strong
9 bench	1 dissection	1 library	1 plates	1 supper
14 board	1 dog	13 leg	1 plateau	1 tablecloth
7 book		10 legs	1 polished	1 tea
5 books	63 eat,	2 linen		1 timber
1 boy	1 eatables	1 long	1 refreshments	2 top
1 bread	34 eating	2 low	3 rest	1 typewriter
2 breakfast		3 room		
2 broad	1 ferns	1 Mabel	10 round	2 use
1 brown	1 fete	2 mahogany		3 useful
1 butter	5 flat	1 mat	1 school	1 utensil
2 cards	29 food	6 meal	1 serviceable	2 victuals
1 celery	1 fork	4 meals	2 set	
1 center	1 form	2 meat	1 shiny	
267 chair	75 furniture	1 mess	3 sit	1 wagon
7 chairs		2 nails	2 sitting	1 whilst
1 chemical	1 glass	1 napkin	1 slab	1 white
57 cloth		1 number	1 smooth	1 wire
1 cockroaches	9 hard		1 soup	76 wood
1 comfort	1 hat		1 spiritualism	1 wooden
17 cover	2 home	1 oak	6 spoon	2 work
1 cutlery	3 house	1 object	2 spread	1 working
11 desk	1 ink	1 old	9 square	2 write
				6 writing

2. DARK

6 afraid	2 cold	2 fair	— 427 light	1 scare
1 baby	28 color	6 fear	1 lonely	1 shades
1 bad	1 colored	1 fearful	1 lonesome	2 shadow
1 barks	1 colorless	1 fearsome	1 lonesomeness	1 shadows
76 black	1 coon	2 fright		1 sky
2 blackness	1 curly		1 mahogany	1 sleep
1 blank		1 ghost	4 man	1 sleeping
2 blind	1 day	1 ghosts	1 mice	1 space
2 blindness	1 daylight	6 gloom	1 midnight	1 starry
5 blue	1 dead	11 gloomy	6 moon	2 stars
1 board	1 denseness	1 gray	1 moonlight	1 stillness
1 boat	3 dim	1 green	1 mysterious	1 storm
15 bright	3 dimness	1 ground		1 stumbling
4 brightness	2 dinky		1 nice	1 subject
4 brown	3 dismal	5 hair	221 night	1 sunlight
1 candle	1 dog	1 hall		1 thunder
1 cart	1 door	1 hell	1 oblivion	1 tree
2 cat	1 dreary	1 hole	1 obscure	1 twilight
1 cell	4 dress	3 horse		
6 cellar	5 dungeon	2 house	1 parlor	1 unseen
1 close	1 dusk		1 prison	
1 closet	1 dusky	1 illumination		
2 cloud	4 evening	2 invisible	5 red	1 walk
2 clouds	1 eye	1 lamp	3 rest	3 weather
3 cloudy	2 eyes	1 lantern	22 room	9 white
				1 woods

A STUDY OF ASSOCIATION IN INSANITY

3. MUSIC

1 accordion	17 dance	1 harmonious	1 noisy	12 sing
3 air	1 dances	45 harmony	2 note	1 singer
1 amuse	15 dancing	1 hear	17 notes	48 singing
10 amusement	1 delight	2 heaven	5 opera	1 soft
7 art	2 delightful	1 hurdygurdy	5 orchestra	1 softness
1 attention	3 discord	1 hymn	6 organ	1 solemn
1 attraction	1 drama	1 idealism		68 song
6 band	8 ear	21 instrument	2 paper	6 songs
1 bassviol	1 ecstasy	5 instruments	1 pastime	2 soothing
7 beautiful	1 elevating	1 instrumental	1 piano	95 sound
2 beauty	1 enchantment	— 180 —	2 planola	2 sounds
7 Beethoven	1 enjoyable	1 jolly	1 pitch	2 stool
1 bell	1 enjoyed	11 joy	7 play,	1 strain
1 bird	18 enjoyment	1 joyful	8 playing	2 strains
1 birds	8 entertaining		10 pleasant	1 string
1 book	3 entertainment	1 lesson	1 pleasantness	2 study
2 books	1 entrancing	1 light	5 pleasing	47 sweet
2 box		1 line	81 pleasure	6 sweetness
1 brightness	1 feeling	1 liveliness	1 poem	4 symphony
	1 fiddle	1 lonely	4 poetry	
1 captivating	2 fine	1 loud	1 practice	2 talent
1 cats	1 flowers	2 love	4 pretty	6 teacher
1 charm	1 flute		1 pupils	1 teaching
1 charms	1 fun	1 man		1 thought
2 charming		1 meditation	1 quiet	2 time
2 cheerful	2 gaiety	24 melody		8 tone
2 cheerfulness	1 gay	1 Mendelssohn	1 racket	1 town
1 Chopin	1 genius	1 Merry Widow	1 racket	2 tune
1 chord	2 girl	1 Mozart	1 rhyme	21 violin
1 chords	1 gladness	1 Mr. B.	2 roll	2 voices
1 clarinette	1 Goethe	1 Mrs. E.	1 room	
1 classic	8 good	8 musician		8 Wagner
2 classical	1 guitar	1 mute	2 sadness	
2 composer			1 smile	1 wavy
1 company	2 hall	6 nice	2 Schubert	1 window
2 concert	5 happiness	1 nocturne	1 score	1 words
1 conductor	2 happy	16 noise	5 sheet	1 worship
			1 sheets	1 Yankees Doodle

4. SICKNESS

1 affliction	2 disabled	2 home	1 operation	2 sorry
1 age	8 discomfort	1 hurtile	1 oranges	1 stomach
8 ailing	20 disease	9 hospital		2 strength
2 ailment	4 distress		20 pain	1 suffer
1 air	62 doctor	48 ill	1 painful	12 suffering
1 anxiety	1 dread	71 illness	2 pale	1 summer
8 appendicitis	1 dreaminess	1 incompetence	7 patient	2 sympathy
1 aunt		1 inconvenience	1 patients	
1 baby	1 enjoyed	1 indisposition	1 people	1 terror
15 bad	1 ether	1 infirmary	1 person	1 together
54 bed	1 exhaustion	1 insanity	7 physician	20 trouble
1 Bertha	1 family	2 invalid	1 pill	1 trying
1 better	8 father	1 K.	1 pills	6 typhoid
1 body	1 fear		1 plague	
1 business	4 feeble	1 low	1 pleasantness	9 uncomfortable
1 calamity	1 feel	1 lying	1 poverty	1 unhappy
1 care	1 feeling		1 quiet	5 unpleasant
2 child	9 fever	2 malady	1 quietness	8 unpleasantness
1 cold	1 fevers	1 man		1 unwell
1 condition	1 fracture	8 measles		
3 consumption	1 fright	1 medication	2 recovery	
2 contagious	1 gloom	20 merilene	1 relapsing	
1 convalescence	1 gravel	1 melancholy	1 rheumatism	
2 convalescing	2 grief	1 mine	1 room	11 weakness
8 cure	1 grunting	2 misery	7 sad	2 wealth
		8 misfortune	9 sadness	1 weariness
1 danger	2 hard	8 mother	1 serious	40 well
115 death	1 hatefulness	2 nervousness	4 severe	1 white
1 dietary	5 headache	1 neuralgia	1 sigh	1 worried
8 diphtheria	— 142 health	15 nurse	1 sore	1 worriment
1 disability	4 healthy	2 nursing	24 sorrow	

5. MAN

2 adult	1 companion	1 homely	6 masculine	1 self
1 affection	1 company	1 horrible	1 mason	4 sex
1 age	1 coon	4 horse	1 mind	1 shirt
1 alive	1 crank	1 house	1 might	1 shoes
12 animal	8 creature	22 human	1 minister	1 short
1 animals	1 cross	1 humanity	1 minor	1 smoking
1 animate		4 husband	1 misery	1 stern
2 appearance	1 devil		1 money	1 stout
	2 doctor	1 individual	1 monkey	1 street
1 baby	1 dress	1 insane	1 Mr. D.	32 strength
2 bad		1 institution	1 Mr. H.	8 strong
1 heard	1 educator	1 intellectual	1 Mr. N.	1 sweetheart
2 beast	1 existence	1 intelligent	8 Mr. S.	
10 being			1 muscular	1 Taft
3 bind	1 fakir	1 janitor		12 tall
1 blond	1 false	1 Joe	1 N.	1 thought
3 body	1 family		1 nature	6 trousers
44 boy	15 father	1 labor	1 Ned	1 true
1 brain	3 female	2 laborer	1 nice	
1 bright	2 flesh	7 lady	8 noble	1 unfeminine
1 brightness	2 form	11 large	1 nuisance	1 use
8 brother	1 fraud	4 life		
1 brotherhood	1 Fred	1 light	1 out	1 V.
1 brute	2 friend	1 limb		1 voter
1 bum		2 living	1 papa	
6 business	1 gentle	1 lord	1 passion	1 walk
	7 gentleman	1 love	2 people	1 wedding
8 cane	6 girl		80 person	1 whiskers
1 certain	1 glacier	1 machine	1 pleasure	
2 Charles	10 good	1 maiden	2 policeman	5 wife
10 child	1 greatness	90 male	1 politician	304 woman
2 children	1 grown	1 mammal	5 power	17 work
1 Christian	1 growth	1 manhood	1 professor	1 works
1 clercyman		5 mankind	1 prosperity	1 worker
7 clothes	1 hair	1 manliness	1 provider	3 working
2 clothing	7 hat			
8 coat	2 help	1 marriage	1 Roosevelt	2 young
1 comfort	1 home	1 married	1 ruler	

6. DEEP

3 abyss	4 darkness	1 heavy	1 precipice	1 story
1 altitude	1 dense	5 height	4 profound	1 strong
1 around	81 depth	87 high		1 study
	1 depths	92 hole	1 ravine	1 sunken
8 below	1 diameter	13 hollow	1 reaching	1 surface
1 beneath	1 dig		13 river	1 swimming
1 black	8 distance	3 large	1 rocks	
3 blue	8 ditch	8 length		1 thick
1 bottom	1 doleful	2 level	1 safety	1 thickness
1 bottomless	27 down	4 light	1 score	1 thin
1 bowl	1 dread	18 long	90 sea	2 thinking
1 breath		51 low	1 sewer	14 thought
2 broad	1 earth		1 shade	2 thoughts
1 brooding	1 extension	2 measure	1 shady	1 tranquil
1 brook		1 mighty	— 130 shallow	1 trench
	2 fall	1 mind	1 sharp	
2 cave	8 falling	4 mine	1 ship	1 under
1 Cayunga	8 far		1 short	
1 chair	5 fathomless	8 narrow	1 sincere	1 valley
2 chasm	1 fear		2 sink	2 vast
1 cellar	1 full	98 ocean	1 sleep	
1 classic		1 organ	1 smooth	1 wading
1 clear	1 gloomy		1 sorrow	184 water
1 cliff	1 good	1 philosophy	2 sound	44 well
	1 gorge	1 pit	6 space	1 wet
8 danger	1 great	1 pond	2 spacious	12 wide
5 dangerous	1 ground	1 pool	7 steep	2 width
28 dark				

A STUDY OF ASSOCIATION IN INSANITY

7. SOFT

1 apple	1 dark	3 gentle	1 membrane	8 snap
1 baby	1 dough	1 girl	2 mild	7 snow
2 ball	6 down	1 glove	1 moist	6 soap
1 beautiful	8 downy	3 good	2 moss	1 soup
12 bed	1 dress	1 grasp	15 mud	22 sponge
1 boiled	1 drink	1 grass	10 mush	1 sponges
1 brain	7 earth	1 ground	1 mushing	8 spongy
4 bread	1 ease	1 gum	12 mushy	1 squash
1 breeze	34 easy	3 hair	4 music	1 sticky
12 butter	4 egg	3 hand	4 nice	1 strong
	2 eggs	1 hands		1 substance
1 cake	1 elastic	— 365 hard	1 palatable	8 sweet
1 candy	1 eyes	1 harsh	2 peach	1 sweetness
1 care		1 hazy	2 pear	
1 carpet	2 feather	1 head	53 pillow	8 tender
1 cat	24 feathers	1 idiot	2 pillows	1 texture
1 cement	1 featherly	1 jelly	8 pliable	1 timid
1 clay	1 feel	2 kitten	2 plush	1 tomatoes
1 clean	8 feeling	1 large	4 pudding	4 touch
8 cloth	1 felt	8 light	4 putty	
1 clothes	5 fine	2 liquid		1 uncooked
2 coal	1 firm	2 loose	1 quality	15 velvet
1 cold	8 flabby	5 loud	8 quiet	2 voice
2 color	1 fleece	5 low	3 rubber	1 wadding
2 comfort	1 flesh	10 silk		1 warm
5 comfortable	7 flexible	1 maple		8 water
1 comply	1 floor	1 marchee		1 watery
1 consistency	1 fluffy	1 medium		1 wax
28 cotton	2 food	1 mellow	1 skin	8 wet
1 crabs	1 foolish	11 mellow	2 slow	8 white
2 cream	1 form		1 slushy	8 wool
1 creeping	8 fruit		27 smooth	1 woolen
25 cushion	1 fun			5 yielding
	4 fur			

8. EATING

1 abstain	1 enjoyable	2 ice-cream	1 olives	2 slow
1 abstinence	1 enjoying	4 Indigestion	1 oranges	1 slowly
2 action	2 enjoyment	1 knives	2 palatable	2 soup
28 appetite	1 enough	1 lemons	3 people	4 starving
4 apple	1 etiquette	2 life	3 pie	2 steak
6 apples		4 live	7 pleasant	2 stomach
1 assimilation	8 fast	6 living	1 pleasant	1 strawberries
	5 fasting	1 lobster	1 pleasure	2 strength
1 biting	1 fattening	1 lobsters	1 plenty	1 substance
46 bread	2 feasting	8 lunch	1 poor	2 sufficient
7 breakfast	1 feed	1 masticate	1 potato	1 sugar
1 butter	5 feeding	11 masticating	2 potatoes	1 surfeiting
	2 filling	5 mastication	1 provisions	1 sustaining
4 cake	1 finishing	1 matter	1 pudding	2 sustenance
3 candy	8 fish	4 meal		6 swallow
1 Chacoma's	1 flavor	10 meals		5 swallowing
1 chew	1 flesh	11 meat		
27 chewing	— 170 food	1 meeting	2 refreshing	21 table
8 chicken	2 fork	1 mild	1 refreshment	1 talking
1 coffee	1 forks	1 milk	1 Reisenweber	7 taste
1 Commons	8 fruit	1 more	1 relief	2 tasting
4 consuming	4 full	1 motion	2 relish	8 teeth
3 cooking	1 gluttonish	2 mouth	2 resting	1 thinking
2 cream	23 good	1 movement	1 room	1 throat
1 devour	1 gormandiser	1 much	1 sandwich	1 tongue
2 devouring	1 gratifying	1 myself	12 satisfaction	1 utensils
2 diet		4 necessary	4 satisfied	8 vegetable
1 diets	8 habit	7 necessity	1 satiety	8 vegetables
1 digest	9 health	8 nire	5 satiating	4 victuals
7 digesting	1 healthful	1 nourish	1 sick	
10 digestion	1 heartily	2 nourishing	1 sit	8 want
2 dine	1 hearty	11 nourishment	1 sitting	1 water
1 dining	2 hot		1 sleep	1 watermelon
31 dinner	1 house		17 sleeping	2 well
6 drink	19 hunger			1 work
166 drinking	44 hungry			
1 dyspepsia				

9. MOUNTAIN

1 abrasion	1 dirt	2 hilly	1 Mount Pleasant	1 shadows
4 Adirondacks	1 distance	1 Himalaya	1 Mount Shasta	1 shooting
2 air	1 ditch	5 hollow	1 Mount Wilson	1 size
3 Alleghany	8 earth	1 Holyoke		2 sky
6 Alps	9 elevation	1 home	2 object	1 slope
2 altitude		1 horse	1 Owl's Head	10 snow
1 attractive		1 Hudson		12 steep
1 automobile	1 fear	2 huge	16 peak	1 steepness
	1 field		1 peaks	2 stone
1 Bald	1 Flashman	1 impressive	1 pictures	1 stones
1 beautiful	1 foliage	1 incline	1 Pike's Peak	2 stream
2 beauty	1 fountain	1 island	1 pines	4 summit
2 big			11 plain	2 Switzerland
1 Blanc	1 Galetton	1 Kipling	1 plateaus	
1 Bluff	1 geography	1 knoll	3 pleasure	1 tall
1 Breckenridge	1 grand		1 pointed	1 Terrace
1 camping	3 grandeur	8 lake	1 railway	5 top
8 Catskills	1 granite	6 land	3 range	2 tree
2 cliff	1 grass	1 landscape	1 ranges	17 trees
1 cliffs	1 great	4 large	8 river	
1 Clifton	4 green	1 level	10 rock	1 up
9 climb	1 ground	1 lofty	6 Rockies	2 vale
27 climbing	1 heath	2 low	18 rocks	90 valley
1 close	73 height	1 lowland	5 rocky	5 valleys
3 clouds	2 heights		1 rough	1 Vermont
1 cone	246 high	1 Monodonack		2 view
5 country	1 highlands	1 mound	1 Mount	2 volcano
1 crevice	2 highness	1 Mount Ivy	1 scene	
	184 hill	1 Mount Kear-	3 scenery	
1 descend	32 hills	1 Mount McKin-	1 sea	1 Washington
2 descending	2 hilltop	ley	1 seas	5 White
1 desert	1 hilltops		1 seashore	1 wood
				3 woods

10. HOUSE

15 abode	1 corridor	1 habitable	2 mouse	1 star
1 alley	42 cottage	5 habitation		1 steps
3 apartment	3 cover	1 happiness	1 new	7 stone
	1 covering	2 height		1 stoop
1 background		3 high	1 object	2 store
74 barn	1 dark	3 hill	1 old	7 street
1 Bay Ridge	1 den	103 home	1 ours	8 structure
2 beautiful	2 dog	1 homeless		
1 Belknap	1 domestic	4 hospital	1 palace	1 tabernacle
4 big	1 domicile	1 hot	1 painting	1 table
1 blinds	16 door	5 hotel	1 Pasadena	1 tall
3 boards	1 doors	1 hovel	11 people	1 telescope
2 boat	3 dwell	2 hut	2 piazza	1 tenant
1 box	68 dwelling		1 picture	2 tenement
23 brick		1 inhabitant	6 place	3 tent
5 bricks	1 enclosure	1 inhabited	1 pleasant	1 timber
2 brown	1 erection	1 inmates	3 pretty	5 top
2 build		1 into	1 property	1 town
78 building	4 family		3 protection	2 tree
2 bungalow	1 fancy	1 joy		1 trees
	2 farm		4 red	1 tumbler
8 cabin	1 farmer	10 land	1 refuge	
1 camp	1 fence	1 lake	19 residence	2 villa
1 carpenter	1 field	24 large	2 resident	1 village
1 carpet	1 fire	3 lawn	1 restful	
4 castle	1 floor	1 lemon	1 road	1 walls
1 cattle	1 form	1 Leonia	12 roof	3 warm
1 cellar	1 foundation	2 life	9 room	1 wealth
2 chair	5 frame	33 live	8 rooms	1 well
1 chamber	1 friends	19 living		9 white
1 chicken	1 furnace	18 lot	1 Sage	1 Whittier
5 chimney	1 furnishing	1 lots	2 school	1 wide
1 church	11 furniture	3 lumber	1 sea	1 willow
2 city			1 shanty	9 window
2 clean	10 garden	2 man	5 shed	5 windows
1 closed	1 grandmother	14 mansion	22 shelter	81 wood
1 college	1 great	1 material	2 sky	1 wooden
9 comfort	2 green	1 mine	2 small	1 workman
1 comforts	3 ground	1 mortgage	1 spacious	1 worship
3 comfortable	1 grounds	1 Mountain	4 square	
1 contractor		House	3 stable	10 yard

11. BLACK

1 agreeable	36 darkness	2 hair	1 obscure	2 somber
	4 death	3 hat	1 orange	1 soot
8 blue	1 dense	1 heavy	4 paint	4 sorrow
3 board	1 desolate	1 hog	1 paper	1 space
2 book	2 dirty	1 horror	1 pen	1 stocking
2 bright	1 disagreeable	5 horse	2 pink	1 stockings
1 buggy	1 dislike		1 pipe	1 suit
	4 dog	1 impenetrable	1 pit	
8 cat	1 domino	14 ink		
1 chair	20 dress			1 table
1 charcoal	2 dye	1 lack	1 radiator	1 tar
17 cloth		12 light	4 red	1 terror
4 clothes	1 earth		1 ribbon	1 tie
1 cloud	1 ebony	1 mammy	1 robe	
1 clouds		2 man		1 umbrella
2 cloudy	1 face	1 Mrs. B.	1 sad	
3 coal	2 fear	2 mournful	2 sadness	1 velvet
3 coat	1 figure	17 mourning	1 sack	
129 color	1 flecked	1 mud	1 shady	2 wall
1 colored	1 floor		2 sheep	1 water
8 colorless	1 funeral	7 negro	4 shoe	--- 839 white
1 coon		1 negroes	1 shoes	1 wonder
2 crepe	2 gloomy	6 nigger	1 sign	1 wood
1 curtain	1 gown	51 night	2 skirt	
	2 gray	1 nothing	1 sky	2 yellow
172 dark	7 green			

12. MUTTON

9 animal	1 delicious	1 goat	1 Mary	1 soft
1 animals	6 dinner	9 good	257 meat	2 soup
1 appetite	2 disagreeable	1 grass	1 mouse	1 stale
1 Australia	1 dish	2 grease	1 muttonhead	8 steak
	2 dislike	1 greasy		2 stew
1 baa	1 disliked		2 nice	2 strong
97 beef		2 ham		
1 bony	14 eat	1 hate	1 old	4 table
1 breakfast	7 eatable	2 head		6 tallow
15 broth	10 eating	1 horrid	1 pastures	8 tender
1 brown			1 peas	1 thinking
2 butcher	7 fat	1 indigestion	2 pig	6 tough
	2 field		3 pork	
2 calf	10 flesh	1 knife		1 uncle
1 cattle	1 flock		1 rare	
8 cheap	30 food	121 lamb	4 roast	30 veal
34 chop	1 fork	2 lambs		1 vegetables
83 chops	1 fowl	5 leg	1 sauce	1 vegetarian
2 cow			204 sheep	
			1 smell	4 wool

18. COMFORT

1 agony	1 driving	1 justice	1 please	11 solid
1 annoyance	165 ease	1 kindness	77 pleasure	8 solitude
1 bad	11 easiness	1 lamp	1 plentiness	2 soothing
42 bed	61 easy	2 laziness	1 plenty	5 sorrow
4 blanket	1 eating	1 lazy	1 Polly	1 speak
1 book	1 enjoying	6 leisure	1 post	1 spirit
1 books	6 enjoyment	1 loss	1 quiet	1 spread
1 canoe	1 feather	1 life	1 quietness	1 suffering
4 care	1 feeling	1 like	7 quilt	1 sweet
31 chair	2 fireplace	2 living	1 rain	1 swing
1 cheer	2 fireside	1 loneliness	1 relief	2 table
1 children	1 friends	6 lounge	58 rest	1 taken
1 cloth		1 luxurious	1 restful	1 tea
4 comfortable	1 God	23 luxury	1 restfulness	1 thankfulness
1 comforter	5 good	1 man	5 resting	1 tired
2 consolation	1 goodness	1 mansion	1 rich	1 trials
1 console	1 great	1 miserable	3 rocker	1 trouble
1 consoling	1 grief	9 misery		1 uncomfort
2 content	7 hammock	9 money	1 safety	10 uncomfortable
2 convenience	50 happiness	8 mother	1 salary	3 uneasiness
1 cozy	17 happy	1 neatness	4 satisfaction	3 uneasy
9 couch	2 hard	4 nice	3 satisfied	1 unrest
1 cover	7 hardship	1 none	1 security	1 unwell
1 covering	1 healing	2 nurse	1 settled	
4 cushion	15 health	1 neatness	1 sick	6 warm
1 cushions	3 help	4 pain	10 sleep	4 warmth
	68 home	2 palace	1 slippers	6 wealth
1 davenport	4 house	1 patient	1 slumber	1 sit
1 death	1 household	12 peace	1 smoke	6 well
1 delightful		1 people	1 smoking	1 work
2 desirable	1 I	2 pillow	5 sofa	
24 discomfort	1 idleness	1 pipe	1 playing	1 ye
1 disease	1 ill	1 playing	2 soft	
1 displeasure		9 pleasant	1 solace	
4 distress	9 joy			

14. HAND

2 anatomy	11 feel	2 instrument	1 narrow	1 shapely
63 arm	5 feeling	2 necessity	2 necessity	1 shop
2 arms	86 feet	1 jewel	1 nice	1 shoulder
	2 fellowship	1 kindness	1 nimble	4 skin
1 ball	89 finger	1 knife	1 nose	1 slim
8 beautiful	83 fingers	1 knitting	1 object	8 small
3 black	1 fist	1 labor	4 organ	1 soap
1 bleeding	10 flesh	1 large		8 soft
48 body	204 foot	4 leg	5 palm	1 something
1 bone	1 form	1 friend	1 part	1 sore
1 bones	1 formation	1 friendship	2 paw	6 strength
1 busy		1 fruit	1 lemon	3 strong
2 cards	1 fruit	2 life	1 pencil	1 support
1 clean		48 limb	1 perfect	1 system
1 clock	1 give	1 limbs	10 person	
1 convenience	20 glove	1 long	1 piano	1 table
1 cradle	5 gloves	1 love	1 pen	1 thread
1 cunning	1 good	8 grasp	8 power	0 touch
		2 machine	8 pretty	2 two
1 dexterity	1 greeting	1 maid		12 use
1 diligence	8 grip	8 man	1 reach	24 useful
1 dissecting		1 manipulation	1 rest	4 usefulness
1 do	1 handle	14 member	11 right	
2 doing	8 handy	1 mind	23 ring	1 watch
1 dog	1 hard	1 mine	2 rings	1 woman
	1 head	4 mouth		40 work
1 ear	2 heart	1 move	1 satisfaction	15 white
1 elbow	6 help	4 muscle	1 servant	4 wrist
6 extremity	2 helper	2 nail	2 sew	8 write
7 face	1 helping	1 nails	9 shake	11 writing
1 fat	1 hold	1 name	1 shape	1 you
	2 human			

15. SHORT

2 abbreviated	1 down	1 lake	1 petticoat	1 strong
1 age	1 drawn	2 large	1 pin	1 stubborn
2 arm	3 dress	2 leg	1 pity	9 stubby
	2 dumpy	18 length	1 plant	4 stumpy
1 baby	11 dwarf	1 lesson	1 plants	1 stunned
1 beach	1 dwarfs	5 life	1 pony	1 stunted
1 beam		1 line	2 post	1 sufficient
1 board	2 easy	15 little	2 pygmy	1 sum
3 boy	1 elongated	1 lived		1 sweet
1 brevity	1 extension	279 long	8 quick	168 tall
1 brick		11 low	1 quickly	6 thick
7 brief	4 fat	1 lowly	1 road	1 thin
1 broad	1 finger	20 man	1 round	8 time
1 build	1 flowerpot	3 measure	1 session	1 tiny
	2 foot	1 medium	1 shallow	1 Tom Thumb
1 C.	2 friend	1 millimeter	1 sister	1 tree
1 cake		1 minus	5 size	
1 chair	11 girl	1 Miss K.	1 slight	
1 change	1 good	1 money	1 slightly	
4 child	1 grandmother	1 mother	136 small	1 waisted
1 children	5 grass	6 myself	1 space	8 walk
1 clock	2 hair	1 name	2 speech	1 want
1 cloth	1 happiness	1 narrow	1 square	2 wanting
1 comfort	1 compact	1 near	1 staccato	1 water
	18 height	1 needle	2 stature	1 well
1 cut	4 high	1 not	2 stem	1 wide
1 cylinder	1 hour	1 out	8 stick	6 woman
	3 hours	6 pencil	2 stop	1 wood
1 dainty		8 people	1 story	1 worm
4 day	5 inch	15 person	24 stout	1 you
2 deficient			1 strawberries	
1 dimension	2 journey		2 street	
2 diminutive	1 Karl		1 string	
1 disagreeable				
10 distance	1 lacking			
1 dot	4 lady			

16. FRUIT

2 acid	1 easy	8 health	25 orange	
2 appetite	62 eat	8 healthy	20 oranges	1 salad
— 157 apple	38 eatables	1 home	6 orchard	5 seed
102 apples	15 eatables		1 outcome	1 sickness
1 article	35 eating	1 Italians		4 sour
	1 edible	1 invigorating	2 palatable	1 south
1 bake	1 eggs	1 jam	17 peach	1 spring
11 banana	2 enjoyment	6 juice	22 peaches	1 stalk
8 bananas		5 juicy	24 pear	1 stand
7 berries	1 figs		11 pears	1 stems
1 berry	1 fish	1 knife	1 picking	1 store
1 blackberries	1 flesh		1 pie	2 strawberries
2 bread	3 flower	2 lemon	2 pineapple	1 strawberry
	3 flowers	1 liked	1 plant	2 summer
2 cake	1 fond	1 love	1 plants	1 swallow
1 can	22 food	8 lucious	2 pleasant	24 sweet
1 candies	1 fresh	2 luxury	1 pleasure	1 sweets
3 candy			2 plenty	
2 cherries	2 garden	4 meat	2 plum	8 table
2 cherry	24 good	1 medicine	2 produce	5 taste
1 country	2 grain	1 melon	1 prune	35 tree
1 currants	4 grape	1 milk	1 raspberries	27 trees
	14 grapes	1 nourishing	1 raspberry	75 vegetable .
1 dainty	1 grapefruit	2 nourishment	1 red	28 vegetables
2 delicacy	1 green	5 nice	1 result	
9 delicious	1 groves	2 nutritious	9 ripe	1 watermelon
1 desire	1 grow	2 nuts	1 ripeness	1 wine
1 digest	1 grows			
1 digestion	2 growth			

17. BUTTERFLY

1 air	6 cocoon	20 flying	1 lilies	1 soul
1 airiness	1 cocoons	1 gaudy	1 little	1 sparrow
2 airy	4 collection	1 gauze	1 meadows	1 speckled
24 animal	12 color	2 gay	1 metamorphosis	9 spider
2 animals	8 colors	2 girl	4 miller	2 spotted
2 ant	3 colored	2 gnat	1 monarch	5 spring
	2 country	3 golden	3 mosquito	17 summer
1 beast	1 cricket	1 good	1 motion	1 sun
24 beautiful		2 grace	30 moth	5 sunshine
20 beauty	1 daisy	1 graceful	1 moths	1 swallow
31 bee	1 dish	1 grass	1 mountains	1 sweet
4 bees	1 dove	5 grasshopper	1 mourning cloak	1 swift
5 beetle	1 dress	2 grasshoppers		
64 bird	1 dust	5 grub	2 nature	1 temporary
10 birds			6 net	1 tree
2 black	1 eagle			1 two
1 blossom	1 ease	1 handsome	1 nets	
1 blue	1 ephemeral	1 happy	2 nice	1 useless
2 bread		1 high		
1 bright	1 fairy	1 horse	1 orange	2 vanity
2 brilliant	2 field	1 human	1 outdoors	1 variegated
1 brown	1 fields			
1 bush	1 flytry	1 idler	1 pancake	11 wasp
3 butter	6 flies	— 261 insect	1 pig	2 white
6 buttercup	2 flight	2 insects	2 pigeon	1 wind
11 bug	1 flippant		1 plumage	11 wing
1 bugs	1 fluttering	1 Japanese	1 powder	31 wings
1 bumblebee	1 fitting		30 pretty	1 word
	1 fits	1 kite		12 worm
1 cabbage	18 flower		1 red	2 worms
87 caterpillar	12 flowers	1 lady		
1 caterpillars	2 flutter	3 lepidoptera	2 small	87 yellow
1 chase	1 fluttering	5 light	1 snakes	
3 chrysalis	44 fly	2 lightness	1 snare	

18. SMOOTH

2 apple	3 face	1 kind	5 pleasant	2 small
1 ball	1 fair	1 lake	1 pleasing	1 snake
1 basin	1 feeling	2 lawn	1 plum	79 soft
2 bed	8 fine	1 lens	5 polished	1 softness
9 board	2 finished	52 level	1 pressed	1 sphere
1 butter	14 flat	1 lightly	1 quality	1 stone
	2 flexible	1 lovely	1 queer	2 straight
4 calm	15 floor	1 machinery	1 razor	1 street
1 carpet	1 folded	1 mahogany	2 river	1 stroke
1 character	2 fur	10 marble	4 road	25 surface
1 cheek	56 glass	1 mercury	1 roads	29 table
1 chip	4 glassy	1 mild	2 roof	1 thin
1 circus	1 glazed	1 mirror	— 277 rough	1 thought
2 clean	3 glide	1 molasses	2 round	1 tidy
3 clear	1 gliding		1 rubber	1 tomato
3 cloth	11 glossy		1 rugged	4 touch
1 clothes	2 good	1 narrow	1 rule	1 tranquil
2 coarse	1 goods	4 nice	1 running	2 uneven
1 coat	1 grand	1 nicely		
1 country	8 grass	1 oyster	1 sailing	
1 course	1 grease	1 paint	1 sandpaper	20 velvet
2 cream	4 ground	9 paper	2 satin	1 velvety
1 cube	8 hair	2 paste	1 sea	1 very
1 deceitful	2 hand	1 pat	1 shape	5 wall
1 deep	41 hard	1 path	1 sharp	1 walls
1 desk	1 harmonious	1 pebble	1 shave	10 water
1 done	4 harsh	1 person	4 shiny	1 wave
1 dry		1 piano	4 silk	1 window
2 ease	14 ice	1 placid	1 silken	8 wood
12 easy	18 iron	17 plain	5 skin	
30 even	1 ironing	23 plane	2 sleek	1 work
1 evenness	1 ivory	1 planed	3 slick	1 worm
			4 slippery	1 wrinkled
				1 wrinkles

19. COMMAND

1 ability	1 dislike	1 harshly	12 obedience	1 something
1 act	27 do	1 haughty	2 obedient	3 speak
1 acting	3 doing	1 head	230 obey	1 spoken
1 anger	2 domineer	1 him	1 obeyed	1 stamina
1 answer	2 domineering	1 holy	30 officer	1 statement
1 anything	2 done	1 honorable	1 only	7 stern
1 appeal	2 don't	1 horse	171 order	8 strength
1 appearance	1 door	1 I	2 ordering	1 strict
16 army	2 drill	1 immediately	9 orders	3 strong
1 arrogance	1 driver	3 imperative		1 stubborn
2 ask	5 duty	4 imperious		1 superintend
2 asking		1 independent	1 parents	1 superior
1 athletics	1 earnestness	1 insist	1 peace	1 supervisor
3 attention	1 easy	1 instant	2 people	1 surly
14 authority	1 eat	1 instant	2 peremptory	1 surrender
	1 effort	1 institution	1 perfect	
1 baseball	1 employ	2 instruct	1 person	
1 Bible	1 employees	1 instruction	1 plead	2 talk
1 bid	1 enforce	1 intelligence	1 policeman	1 teach
6 boss	1 entreat		10 power	14 teacher
1 boy	7 entreaty	1 judge	2 powerful	1 teachers
	1 exclamation		1 praise	1 teaching
7 captain	1 exertion	1 knowing	1 proper	15 tell
2 charge	1 experience	1 labor		1 telling
2 chief		1 language	1 quick	3 temper
1 church	1 father	2 law		1 temperament
1 combine	1 firm	1 laziness	1 thee	
1 combined	1 forbid	2 lead	1 regimen	2 think
5 come	7 force	1 leader	1 reply	1 thinking
5 commander	1 forced	1 lieutenant	2 reprimand	1 thoughtfulness
2 commandment	1 foreman	2 listen	11 request	1 threat
2 company		2 loud	5 respect	2 told
1 compel	1 gain	1 love	1 respond.	
8 control	43 general	1 madam	1 retreat	1 uncomfortable
1 cross	1 gentleness	9 man	3 right	1 upright
	1 gently	2 master	2 rule	
1 dare	1 Germany	1 masterful	1 ruling	6 voice
18 demand	1 give	3 military	1 running	1 vow
1 demanding	25 go	2 mind		
2 desire	1 God	1 mother	1 say	1 wagon
2 determined	1 God's	1 move	1 saying	1 wife
3 dictate	2 good	1 must	2 school	3 will
1 dictatorial	1 govern	1 noble	1 severe	1 willing
2 dignity	1 grand	1 nuisance	1 shalt	2 words
2 direct			1 ship	2 work
1 disability	4 halt		16 soldier	1 wrong
2 discipline	4 harsh		6 soldiers	
				8 you

20. CHAIR

4 arm	1 cushions	1 idleness	1 people	56 sitting
4 article	9 desk	1 implement	3 person	1 size
1 back		1 joiner	1 place	6 sofa
1 beauty	7 ease		1 placed	5 soft
1 bed	6 easy	3 large	1 plant	1 spooning
13 bench		7 leg	1 platform	1 stand
1 book	1 fatigue	11 legs	1 pleasant	88 stool
1 boy	10 floor	3 lounge	1 pleasure	1 stoop
2 broken	1 feet	3 low	1 posture	1 study
4 brown	1 foot	1 lunch	1 reading	1 support
1 bureau	1 footstool		48 rest	191 table
	1 form	3 mahogany	3 resting	1 tables
3 cane	88 furniture	1 massive	17 rocker	1 talk
1 caning		1 mission	15 rocking	1 teacher
1 careful	1 Governor	5 Morris	9 room	1 timber
1 carpet	Winthrop	1 myself	2 rounds	1 tool
1 cart			1 rubber	
1 color	1 hair	2 necessity	3 rung	1 upholstered
21 comfort	5 hard			1 upholstery
8 comfortable	2 hickory	2 oak		
3 convenience	4 high	1 object	2 use	
5 couch	2 home	1 occupy	3 seated	3 useful
1 crooked	3 house	1 office	2 seating	
12 cushion			3 settee	
			107 sit	1 white
				49 wood
				6 wooden

21. SWEET

5 agreeable	1 dinner	1 hunger	33 nice	1 sharp
1 appetizing	1 dog	1 Huylers	1 orange	1 sickish
11 apple	1 dreams	1 insipidity	2 oranges	2 sixteen
3 apples	1 E.	2 kiss	9 palatable	— 301 sour
3 beautiful	2 eat	1 limited	8 peach	1 stuff
50 bitter	1 elegant	1 lovely	1 peaches	224 sugar
1 black	1 eyes	1 loving	3 perfume	2 syrup
1 breath	1 face	2 low	2 pie	
1 candies	2 flavor	1 Mary	1 plausible	57 taste
82 candy	2 flower	1 mellow	31 pleasant	4 tasteful
1 cherries	3 flowers	1 melody	4 pleasing	2 tasting
1 child	1 food	2 milk	1 pleasurable	11 tasty
3 chocolate	1 fresh	1 molasses	1 pleasure	1 tea
1 chocolates	9 fruit	1 musty	1 plum	2 toothsome
2 clean		1 mouth	1 preserves	
1 confectionery	1 gentle	8 music	1 quality	1 ugly
1 cream	6 girl	1 name	1 saccharine	1 unpleasant
1 cunning	26 good	1 nasty	3 salt	1 very
7 delicious	2 harsh	1 name	1 salty	1 voice
1 dessert	12 honey	1 nausea		1 wholesome

22. WHISTLE

1 act	1 crow	5 holler	1 person	1 sounds
1 action	2 cry	1 hollow	1 piercing	3 steam
7 air	1 cuckoo	4 horn	7 pipe	1 steamboat
3 alarm		1 humming	2 pleasure	1 stick
1 annoyance	8 dance	6 instrument	1 police	4 talk
2 attention	1 dear	6 policeman	1 postman	1 telephone
1 automobile	1 disagreeable	2 joy	1 postman's	1 throat
	1 distant	1 letter-carrier	1 quiet	1 pretty
1 bad	7 dog	1 lad	4 pucker	7 tin
2 bell	1 drink	3 laugh	1 tool	1 tool
15 bird	1 dumb	1 letter-carrier	1 top	1 top
3 birds		5 lips	4 toy	4 toy
1 blast	1 ear	5 locomotive	2 racket	6 train
5 blew	3 echo	3 long	3 report	1 tree
95 blow	1 effort	27 loud	1 running	2 trumpet
6 blowing	15 engine	1 low		18 tune
2 blows				
2 boat	2 factory		1 scream	1 umpire
66 boy	3 fire	1 man	1 screech	1 unpleasant
5 boys	1 fingers	1 mash	5 sharp	
1 breath	3 fire	1 melodious	4 shout	1 vibration
1 bright	5 flute	1 metal	1 shrieking	8 voice
1 brother	1 fly	2 mill	26 shrill	
1 buzzing	2 Franklin	1 mine	1 shrillness	1 warble
	2 fun	1 mocking	8 signal	1 warning
26 call	1 funny	27 mouth	1 sang	1 whisper
2 calling		44 music	75 sing	1 whispering
2 cars	1 Galton	8 nice	4 singing	8 willow
1 cent	1 girl	1 nightingale	1 soft	10 wind
8 chain		— 178 noise	1 softly	1 wood
1 children	1 habit	8 noisy	12 song	1 wooden
1 clean	8 happiness	1 note	1 songs	1 work
1 clear	1 harmony	1 notes	1 sorority	
1 come	1 harsh		103 sound	1 yell
1 conductor				

23. WOMAN

2 adult	1 delicate	2 grand	3 lovely	5 short
1 affinity	1 delightful	1 grandmother	1 loving	4 sister
1 aged	1 develop	2 great	1 maid	3 skirt
2 angel	1 dignity	9 hair	1 maid	3 skirts
1 appearance	1 dinner	4 handsome	1 majesty	1 small
1 appreciating	1 domestic	5 hat	292 man	1 softness
1 artificial	28 dress	1 hats	2 mankind	1 spiritual
1 baby	4 dresses	1 helper	2 marriage	2 stout
1 Barnard	1 dressmaker	3 helpmate	2 married	2 style
17 beautiful	1 dust	1 her	2 mate	1 suffrage
7 beauty	1 Edna	3 home	1 modesty	2 sweet
9 being	1 endurance	1 honor	80 mother	2 sweetness
1 Bible	2 Eve	2 house	1 Mrs. S.	1 sweetheart
1 biped	1 eyes	1 housekeeper	1 myself	
3 body		1 housewife		1 talk
1 bonnet	9 fair	11 human	1 nature	7 tall
3 boy	3 fashion	2 humanity	1 necessity	1 teacher
1 bright	184 female	1 inexplicable	3 nice	1 temporary
	10 feminine	1 individual	1 noble	1 truth
1 capability	2 flesh	1 intellect	1 nurse	
1 cat	1 figure	1 interesting	1 old	1 uneasy
1 character	2 fine	5 kind	1 palmist	1 use
45 child	1 freedom	1 kindness	1 parasol	2 virtue
2 children	3 friend	1 labor	1 people	
2 clean		41 lady	1 perfection	1 waist
1 clever	1 genteel	4 large	17 person	1 walks
6 clothes	5 gentle	1 leader	1 petticoats	1 weak
1 clothing	1 gentleness	1 liar	3 pleasure	2 weakness
2 comfort	59 girl	1 living	10 pretty	15 wife
1 companion	8 girls	1 lovable	1 purity	1 will
4 creature	1 goddess	5 love	1 rib	1 womanhood
1 cross	4 good	1 loveliness	5 sex	2 work
1 dear	1 goodness	2 graceful		5 you
1 deceit	1 gown			4 young

24. COLD

1 activity	1 darkness	2 head	1 overcoat	1 sleighing
2 agreeable	5 day	1 hearted	1 slow	1 sneezing
4 air	1 death	37 heat	1 pain	45 snow
1 arctic	1 degree	151 hot	1 Peary	1 snuffles
4 atmosphere	6 disagreeable	114 ice	2 penetrating	1 stone
1 autumn	8 discomfort	1 ice-cream	1 pleasant	1 storm
	3 dreary	1 irritating	1 pressure	3 stove
2 bad			1 quiet	
4 bitter	1 feel	1 January	1 raw	1 temperate
1 bracing	10 feeling	1 man	1 refrigerator	8 temperature
1 breezy	1 feet	1 latitude	1 rhinitis	1 thermometer
1 brisk	1 Finland	1 lemonade	1 room	1 touch
1 bum	6 fire	2 light	1 running	10 uncomfortable
	1 fold		1 rough	4 unpleasant
9 chill	7 freeze	2 man		
30 chilly	23 freezing	1 medicine		
2 clothes	2 frigid	1 misery		
1 clothing	9 frost	1 mushroom		
1 coal	4 frozen	1 nature	5 severe	6 warmth
5 coat	1 fuel	1 naughty	3 sharp	7 water
2 comfort	2 furs	1 near	6 shiver	49 weather
1 comfortable		1 never	2 shivering	1 well
1 comfortless	1 gripe	1 night	1 shivers	1 white
5 cool	1 gloomy	1 numb	1 shivery	5 wind
5 cough		1 numbness	1 shrivel	1 windy
2 cure	1 ham		1 shudder	120 winter
	1 hands		4 sick	1 wraps
2 damp	2 hard		6 sickness	
4 dark			1 skating	2 zero

25. SLOW

1 action	1 decrease	1 indecision	1 pace	1 subway
1 age	2 delay	1 insect	1 papa	27 sure
1 anger	1 deliberate	2 invalid	8 person	8 swift
2 animal	2 dilatory	1 irritating	2 Philadelphia	1 swing
1 ant	1 distance		1 poke	
1 anxiety	1 dizzy	1 laggard	2 polk	1 talk
1 association	1 donkey	1 lagging	1 Poughkeepsie	3 tardy
1 automobile	1 drag	1 lassitude	1 pupil	1 team
1 awful	1 dragging	2 late		1 tedious
2 baby	2 dreary	2 laziness	1 quality	1 terrapin
3 backward	1 dressing	23 lazy	56 quick	1 thought
1 backwards	1 drive	1 lecture	2 quickly	1 thoughtful
1 bad	1 driver	1 leisure	1 quickness	1 tide
1 bear	1 drone	1 lingering	12 quiet	14 time
1 beggar	1 Dr. R.	6 long		5 tired
1 behind	7 dull		1 rain	2 tiresome
1 better	2 ease	3 man	9 rapid	4 tortoise
1 Bill	63 easy	1 march	1 rhythmic	18 train
3 boat	1 Erie	1 market	1 river	1 trains
1 boring		3 me	1 Rose	1 trolley
2 boy	316 fast	1 medium	2 run	9 turtle
1 breakdown	1 feeble	1 mice		
	1 fine	1 mind	1 sharp	2 unpleasant
1 camel	1 fire	1 mode	1 short	1 unsatisfactory
1 canal boat	1 fly	1 moderate	1 sick	
6 car	1 foot	20 molasses	1 sickness	1 vehicle
2 cars	1 funeral	1 monotonous	1 slack	
1 careful		1 moon	2 sloth	7 wagon
1 carpenter	3 gait	7 motion	1 slowly	8 walk
1 cart	1 gin	1 motionless	7 sluggish	
1 catch	1 going	1 move	10 smart	1 walks
2 caterpillar		8 movement	1 smooth	1 water
1 caution	2 hard	5 moving	62 small	
1 child	3 haste	1 Mr. T.	1 snails	2 weak
1 climb	2 hasty	3 mule	1 snake	1 weather
5 clock	1 heavy	8 music	1 softly	1 wheel
3 coach	14 horse	3 myself	2 speech	1 white
1 conversation	1 hot	1 nasty	7 speed	1 work
1 cow	3 hurry	1 nature	1 speedless	1 working
1 crawl		1 obstacle	1 starting	1 world
1 creep	1 impatience	2 old	2 step	3 worm
2 creeping	1 inactive	2 ox	3 stop	1 writing
1 dead	1 inanition	1 oxen	1 stubborn	1 you
	1 incessant		7 stupid	

26. WISH

1 accomplish	1 candy	1 dog	6 fulfilment	3 heaven
1 accomplishment	1 cannot	1 doll	1 fun	1 heavens
1 achieve	1 check	1 dollars		1 help
1 Aladdin	2 chicken	2 dream	2 gain	12 home
2 ambition	2 child	1 dress	14 get	51 hope
1 angel	3 Christmas	1 driving	4 gift	1 hoping
1 answer	1 clover	1 eat	1 girl	2 hopeful
1 anxiety	1 clovers	1 entreaty	3 give	1 house
1 anxious	1 cold	1 enjoyment	1 glad	
1 any	2 come	1 examination	4 go	2 idea
7 anything	4 comfort	1 expectation	1 gold	1 imagination
1 apology	9 command	5 express	19 good	1 impossible
1 ardent	1 conditions	1 expression	7 grant	1 inclination
8 ask	2 cool	11 fairy	15 granted	
1 asking	1 craving	2 fancy	4 gratification	2 journey
1 attain	2 demand	1 farm	6 gratified	1 joy
1 baby	1 desirable	5 favor	11 gratify	1 know
2 beg	197 desire	1 feeling	1 greetings	
1 benefit	1 desires	1 finish	1 guess	
1 best	1 diamond	1 fish	18 happiness	2 letter
1 better	1 disappoint	1 fond	3 happy	8 like
1 bone	1 disappointed	1 foolishness	1 hard	1 liked
1 books	3 disappointment	5 for	1 hate	1 lonesome
1 boy	1 dish	2 fortune	18 have	10 long
1 boys	1 dislike	1 fulfill	6 health	18 longing
1 breakfast	1 did	2 fulfilled	1 hearty	2 love
1 brightness	5 do			9 luck

1 make	1 perhaps	1 repeat	9 star	1 unsatisfied
1 marry	1 person	8 request	2 stars	
2 million	1 pick	1 rest	1 strong	2 vacation
4 mind	1 picture	1 rich	4 success	
82 money	1 pie	3 riches	1 suggest	
1 moon	1 plan	1 ring	2 summer	
1 morning	1 play	1 sail	1 sweetheart	
1 music	1 pleasant	1 satisfactory	1 swim	9 wanting
1 myself	5 pleasure	2 satisfied	18 think	1 waste
	2 plenty	1 satisfy	6 thinking	1 watch
1 news	3 position	1 satisfying	47 thought	1 water
1 nice	1 possess	2 say	1 toy	2 wealth
1 no	1 possession	1 secret	1 trip	8 well
	2 present	1 sincere	1 trouble	2 wisdom
3 obey	2 promise	1 sleep	6 true	1 wise
1 object		1 some	1 try	14 wishbone
1 obtain	1 quiet	15 something		2 wonder
1 offer		1 sorrow	1 unattainable	2 would
1 one	1 reality	1 sorry	1 uncertain	1 wouldn't
1 opportunity	1 receive	1 speak	1 unfulfilled	
1 opposition	1 remembrance	1 special	1 unlawful	
1 orange	1 renown			1 yes
1 order				1 you

27. RIVER

1 Amazon	1 Connecticut	65 lake	5 pond	7 smooth
1 Androscoggin	10 creek	1 lakes	1 rain	1 spring
	8 current	5 land	1 Rappahannock	1 St. Lawrence
1 bank		7 large	117 stream	
2 banks	1 dangerous	1 launch	1 streams	
1 barrow	35 deep	1 length	1 Rhine	1 streamlet
8 bathing	1 Delaware	1 life	1 rill	1 strong
1 bay	1 depth	1 liquid	2 rivulet	1 sunset
1 beautiful	1 drowned	8 long	1 rivulets	2 Susquehanna
1 beauty		1 meadow	1 row	8 swift
1 bend	4 East	8 Mississippi	1 rowing	4 swim
6 blue		1 Mississquoi	3 run	4 swimming
20 boat	1 fish	1 Missouri	6 running	1 Tay
3 boats	24 flow	1 Mohawk	1 rushing	1 tide
1 boating	5 flows	10 mountain	1 Saco	1 tree
1 body	17 flowing	2 moving	4 sailing	1 tug
2 bridge	1 Freiberg			1 turbulence
5 broad	1 front		1 salt	
20 brook		17 ocean	14 sea	5 valley
/ 1 bubbling	1 God	2 Ohio	2 shallow	
	1 Grand	1 Ottanqueehee	1 Shannon	1 Ware
1 Calumet	1 green	1 Owasco	2 shining	383 water
1 camping		1 Pacific	4 ship	3 well
1 canal	38 Hudson	2 peace	1 ships	2 wet
8 canoe		1 Piscatague	1 side	8 white
1 canoeing	1 island	1 plain	1 sky	5 wide
1 Chignagnette		1 pleasure	2 slow	2 winding
1 cliffs	1 Jordan		1 small	1 winds
1 commerce				

28. WHITE

1 almost	1 cerement	85 dark	1 glare	1 lovely
2 apron	1 chair	1 darkness	1 good	
	3 chalk	1 day	2 gray	2 man
1 baby	1 cheerful	1 daylight	6 green	1 marble
1 beach	1 cherries	2 dazzling		9 milk
1 beautiful	10 clean	1 delicate	1 hall	1 Mountain
1 beauty	2 cleanliness	2 dove	2 handkerchief	1 Mountains
1 bird	1 cleanness	34 dress	1 hands	3 muslin
— 308 black	2 clear	1' dresses	1 hard	
1 bleached	17 cloth		2 horse	1 napkin
9 blue	1 clothing	2-easy	4 house	1 nearly
1 boat	4 cloud	1 evening		2 nice
1 Bob	2 clouds		1 innocence	
1 body	1 coat	1 face		5 paint
1 bride	170 color	2 feathers	1 lady	2 pale
4 bright	1 colored	2 flag	1 lawn	17 paper
1 brightness	11 colorless	2 flower	1 lead	1 pencil
1 Broadway	3 cotton		1 lemon	2 person
2 brown	1 cream	2 garment	1 lie	1 pigeon
	2 curtain	1 ghost	51 light	2 pink
2 cat	1 curtains		3 linen	1 pleasing

1 powder	1 rightness	1 silvery	1 space	1 tile
1 pretty	2 rose	1 simple	1 spread	1 trees
20 pure		1 skirt	2 still	1 trousers
19 purity	1 sand	2 sky	1 summer	
	1 Sarah	91 snow	1 sunlight	2 waist
1 race	1 shade	1 snowflake	1 swan	6 wall
7 red	6 sheet	1 snowy		1 wash
1 restful	1 shoes	1 soft	4 tablecloth	2 wedding
1 retired	1 shroud	1 soul	1 tent	
1 ribbon				7 yellow

29. BEAUTIFUL

1 admirable	1 divine	86 handsome	1 nicely	1 sculpture
1 admiring	2 dress	1 happy	1 night	1 sensitive
1 aesthetic		1 hard	1 noble	1 shapely
1 all	1 earth	1 hateful		1 sight
1 ancient	5 elegant	2 heaven	1 object	10 sky
2 appearance	1 enjoyed	1 heavens	8 ocean	1 soft
6 art	1 ethereal	1 hideous		1 sometimes
1 artistic	2 Eunice	2 hills	2 Palisades	1 soothng
1 article	1 Evelyn	27 homely	1 pansies	1 sorrowful
1 attractive	1 everything	1 horrible	1 park	8 splendid
	4 exquisite		3 peacock	1 statue
1 baby	1 eye	1 joy	1 perception	1 straw
1 bird	2 eyes		3 perfect	2 summer
1 birds		1 kind	1 perfection	1 sun
1 brilliant	3 face	5 lady	2 person	8 sunset
1 building	5 fair	1 lake	4 pictures	1 sunshine
2 butterfly	1 falls	7 landscape	1 place	1 superb
	2 fancy	1 lightness	2 plain	4 sweet
1 carpet	1 fascinating	1 long	14 pleasant	1 symphony
1 carving	8 fine	1 look	16 pleasing	
7 charming	13 flower	1 looks	2 pleasure	2 things
6 child	42 flowers	1 looking	—113 pretty	4 tree
1 city	1 foliage	2 lovely		10 trees
1 classic	1 forest	64 lovely	1 queen	
1 clear	1 Formosa	1 luxurious	1 rainbow	2 ugliness
1 clouds	1 fragrant		1 religion	66 ugly
1 color	2 friend	10 magnificent	1 resplendent	
1 colors		2 maiden	1 ribbon	1 vanity
8 comely	1 gift	2 man	1 rich	1 verdure
1 common	24 girl	1 mansion	1 robin	1 violets
3 complexion	2 glorious	1 money	1 morning	
1 concealed	2 God	1 night	6 rose	4 weather
3 country	4 good	2 mountain	2 roses	1 wife
1 curtain	2 gorgeous	6 mountains		29 woman
	1 graceful	4 music	1 sad	1 women
1 dainty	40 grand	1 myself	1 satisfaction	1 wonderful
7 day	2 grandeur	16 nature	1 scarce	2 world
1 delicious	1 grass	1 Niagara Falls	1 scene	
5 delightful	1 grounds	73 nice	23 scenery	1 you
1 description			1 school	
1 desire	1 hand			

30. WINDOW

12 air	1 danger	2 lattice	20 sash	2 sunshine
1 airing	2 dirty	1 ledge	2 scene	
1 airy	57 door	188 light	3 scenery	1 thing
2 aperture	1 doors	15 look	2 school	1 translucent
1 awning	1 doorway	5 looking	1 screen	1 transom
	1 draught	1 low	1 screens	24 transparent
1 bars		1 Newcastle	1 seat	2 trees
4 blind	1 eyes		9 see	
1 breeze			8 shade	2 useful
3 bright	1 few	1 object	2 shades	
2 broken	5 frame	19 open	1 shed	
		1 opened	1 shining	1 vast
1 cage	1 garden	16 opening	7 sight	5 ventilation
3 casing	—316 glass	1 outdoors	1 slightly	2 ventilator
1 children	1 glasses	5 outlook	1 sill	15 view
1 church			1 sky	1 viewing
6 clean	4 hole	82 pane	8 skylight	1 visible
1 cleaner	1 home	6 panes	1 small	1 vision
7 clear	22 house	1 picture	1 square	
1 colored		1 porch	2 stained	4 wall
1 cool	1 joyful		1 stop	1 wash
13 curtain		1 rain	1 street	2 wide
4 curtains	2 landscape	1 rock	1 structure	2 winter
	11 large	3 room	3 sun	1 wood

31. ROUGH

4 bad	2 earth	1 knife	5 ragged	3 street
1 bag	2 easy	1 lake	1 railway	6 surface
1 ball	2 even	1 land	1 rasp	
1 basket		3 level	5 ready	4 table
1 bear	1 face	1 luck	1 refined	1 tempestuous
1 blisters	1 fast	1 lump	1 rider	1 tongue
1 blow	7 file		1 riders	2 touch
10 board	2 fine		1 river	2 tough
1 boards	6 floor	8 man	21 road	1 towel
4 boisterous	2 football	1 manner	5 roads	4 tramp
2 bold	1 forest	1 manners	10 rock	1 trouble
4 boy		1 material	10 rocks	1 tumble
4 boys	1 gambler	1 me	12 rocky	1 turbulent
1 bristle	1 gentle	1 mean	1 rowdy	
2 brush	8 gentle	3 mild	1 ruddy	4 ugly
3 brutal	1 girl	6 mountain	7 rude	4 uncomfortable
1 brutality	1 granite	1 mountains	1 rudeness	4 uncouth
1 bumpy	1 granular		1 rug	1 uneasy
	1 grater	1 nice	22 rugged	38 uneven
2 calm	1 grating	1 noisy	1 ruggedness	1 unfairness
1 careless	1 gravel		1 Russian	1 unfinished
2 carpet	8 ground	1 obstetricians	1 rut	7 unpleasant
1 chaps		27 ocean		1 unsatisfactory
4 cloth	1 hairy	1 orange	5 sand	1 untaught
29 coarse	1 hall		13 sandpaper	
1 coarseness	2 hand	1 paper	1 savage	1 voices
1 cobblestones	38 hard	1 pavement	15 sea	2 voyage
1 cold	1 hardness	1 peasant	1 sedate	5 vulgar
2 country	10 harsh	1 pebbles	1 scratch	
2 crooked	1 harshness	2 person	1 shock	2 walk
1 cross	1 haste	1 picture	1 silver	1 wall
1 cruel	2 hill	1 pineapple	1 slow	1 washing
	2 hills	2 plane	— 36 smooth	21 water
1 desert	5 hilly	1 plank	3 smoothness	5 waves
1 difficult	1 horrid	1 play	4 soft	1 weary
1 dirt	1 house	1 poor	1 sponge	4 weather
3 disagreeable		1 porcupine	1 stern	1 west
1 discomfort	8 ice	1 push	1 sticky	2 wild
1 discouraging	1 impertinent		12 stone	2 wind
1 dog	1 injurious	1 quality	8 stones	1 winds
1 dress	2 iron	1 quiet	7 stony	7 wood
3 dry	2 irregular	1 quite	5 storm	1 woodsman
1 dull		1 jagged	1 stormy	1 work
			1 straight	1 world
				1 wrong

32. CITIZEN

14 alien	1 commander	1 fine	1 inhabit	2 men
5 America	3 community	2 five	28 inhabitant	1 misery
35 American	1 comrade	1 fool	1 invader	1 moral
3 Americans	1 conspirators	1 foreign	1 Italian	1 Mr. A.
1 army	1 constitution	10 foreigner	1 justice	1 Mr. C.
1 arrived	1 cosmopolitan	1 free		1 Mr. S.
	1 countrified	2 freeman		1 municipal
4 belong	17 country	1 friend	1 K.	1 myself
1 belonging	7 countryman	1 friendship	1 king	
1 beloved	1 criticise	1 gardener		1 name
1 beneficial		8 gentleman	1 large	1 nationality
1 bird	1 democrat	3 German	11 law	25 native
3 born	2 duties	26 good	1 laws	1 natural
1 Brooklyn	3 duty	6 government	8 lawyer	1 naturalisation
1 brother	1 dweller	1 green	1 leader	5 naturalized
1 business	1 dwelling	1 helper	1 leading	1 navy
		1 home	1 legislature	1 near
1 C.	1 ear	2 honest	1 Lincoln	3 neighbor
1 candidate	1 election	1 honor	1 little	1 newspaper
1 capital	1 eligible	2 emigrant	1 live	4 New York
1 cat		1 emigration	1 lives	1 noble
1 cistern		1 emigrant	2 honorable	2 nobleman
1 citizenship		2 human	8 loyal	1 nonsense
27 city	1 F.		7 male	
4 civics	1 faithful	1 I.	— 278 man	1 obedient
2 civilian	1 farm	1 immigrant	1 manhood	1 obey
4 civilized	8 farmer	1 independence	6 mayor	1 occupant
1 clothes	3 fellow	1 Indian	1 me	2 office
1 club	2 fellowship	4 individual	5 member	1 officer

1 old	4 politician	1 righteousness	1 suburban	1 unit
1 orderly	1 politicians	2 Roman	3 suffrage	19 United States
1 outlaw	8 politics	2 Roosevelt	2 suffragette	2 useful
	1 poor	1 ruler		
2 paper	4 president		3 Taft	2 village
2 papers	1 proud	1 season	1 Tammany	13 vote
1 patrician		1 ship	1 taxes	4 voting
2 patriot	1 relative	5 soldier	1 Teddy	35 voter
2 patriotic	8 republic	10 state	1 thoughtful	
1 peasant	1 republican	5 statesman	1 tough	1 Washington
41 people	2 residence	1 stationed	5 town	2 woman
64 person	20 resident	1 straight	5 townsman	2 work
1 plebeian	1 respectable	5 subject		
2 policeman	1 revolution		2 undesirable	1 years

33. FOOT

2 anatomy	1 finger	1 labor	1 pedant	1 standard
2 animal	1 firm	1 lame	1 pedestal	6 step
11 ankle	1 flat	14 large	1 pedestrian	1 stepping
2 appendage	6 flesh	54 leg	5 person	2 stocking
11 arm	1 football	1 legs	1 plaster	1 stone
	3 foundation	2 length		1 strength
1 baby's		58 limb	2 quadruped	1 strong
1 base	1 gear	2 long		1 stumps
1 bicycle	1 girls		1 rheumatism	1 support
2 big	1 going	5 man	1 right	1 swiftness
3 black	1 good	8 measure	1 rubber	
34 body	2 ground	10 member	4 rule	1 three
4 bone		1 mine	1 ruler	5 tired
5 bones	185 hand	1 Miss F.	2 run	30 toe
6 boot	5 hands	2 movement		41 toes
1 bottom	7 head	1 music	1 shape	2 travel
1 broken	3 heel	1 nail	146 shoe	1 trod
1 brown	1 help	2 necessity	17' shoes	1 twelve
1 careful	1 helper	1 naked	4 short	1 two
3 comfort	1 horse	1 needful	1 size	
3 corn	1 house	1 organ	1 skin	5 useful
2 corns	1 human	1 hurt	2 slipper	
1 dainty	1 humility		22 small	1 velocity
1 difficult	1 pain	1 pain	1 sole	
1 distance	3 inch	1 painful	8 sore	106 walk
	2 inches	2 part	1 speed	38 walking
1 expansive	4 kick	1 pavement	1 stability	1 warm
9 extremity	2 knee	3 pedal	6 stand	

34. SPIDER

1 abhorrence	1 crawls	4 flies	3 nasty	1 stung
1 afraid	11 crawling	136 fly	1 nest	1 study
38 animal	1 crawlly	1 fright	2 net	
1 annoyance	2 creature	1 fry	1 nuisance	3 tarantula
3 ant	6 creep	1 frying		1 thing
2 arachnida	1 creeps		1 objectionable	2 thread
1 arachnid	7 creeping	1 grass	1 obnoxious	1 tortoise
1 awful	1 creepiness	1 harlequin	1 octopus	1 treachery
	5 creepy	1 harmful		1 tree
3 bee	2 cricket	1 horrible	1 pain	
2 bees	1 cringe	4 horrid	1 pan	6 ugly
4 beetle	1 cross	3 horror	1 pest	1 undesirable
1 big	1 crow		10 poison	1 unpleasant
2 bird	1 cunning	1 industry	1 poisonous	
20 bite		276 insect	1 pretty	2 venomous
8 black	1 daddy-long-legs		1 rats	1 vermin
1 breakfast		1 jumping	2 Robert Bruce	1 walk
58 bug	1 danger		1 roach	1 wall
2 bugs	4 dangerous	5 large	1 room	6 wasp
5 butterfly	2 dark	3 leg		1 watching
1 camp	1 dirty	27 legs	1 shivers	2 weaves
3 caterpillar	3 disagreeable	1 loathsome	1 shudder	1 weaving
1 centipede	1 displeasure	1 long	1 sinister	188 web
1 chills	1 dread		2 small	3 webs
1 climb	1 evil	1 Miss Muffet	1 snake	1 wiggly
12 cobweb	3 fear	1 mosquito	1 snakes	4 worm
2 cobwebs	1 fish	1 moth	1 sparrow	
1 country		1 movements	7 sting	1 young
14 crawl			1 stings	

35. NEEDLE

3 article	2 dressmaker	4 knitting	1 pincushion	1 stitching
1 blood	1 embroidery	1 labor	40 point	1 surgeon
2 book	17 eye	1 long	9 pointed	
1 broken			10 prick	1 tailor
1 button	8 fine	1 magnetic	1 pricks	2 thick
1 buttons		1 material	2 pricking	15 thimble
	1 handy	1 mending	134 sew	2 thin
1 camel	1 help	3 metal	1 sews	—160 thread
4 cloth	1 hole		107 sewing	5 tool
2 clothes	1 home	1 nail	152 sharp	
2 coat	1 housewife		4 sharpness	1 use
7 cotton	2 hurt	1 ornament	1 shiny	1 using
1 crocheting	2 hypodermic		1 slippers	12 useful
1 cut		1 patching	2 small	
4 darning	5 implement	147 pin	53 steel	1 weapon
1 diligence	2 industry	11 pins	2 sting	1 wire
	26 instrument			1 woman
				6 work

36. RED

1 aggravating	1 cheeks	1 fright	1 jacket	2 rug
1 anarchist	1 cheer	2 flower		
2 anger	1 cherries	1 flowers	1 lavender	3 scarlet
13 apple	1 closet	1 flushing	1 light	1 shoe
3 apples	8 cloth		1 lips	2 sky
	1 clouds	1 garment		1 smooth
1 ball	2 coat	3 garnet	1 maroon	1 soldier
1 banner	— 254 color	1 gaudy	1 Mars	1 spots
2 barn	1 colors	2 glaring	1 mixture	1 story
2 beauty	1 colored	1 glass	1 moon	5 sun
1 becoming	1 coloring	1 globe	1 object	8 sunset
61 black	1 comfortable	1 glow	1 offensive	1 sweater
71 blood	1 Cornell	1 grass	1 orange	1 tablecloth
1 bloody	1 cow	80 green		4 thread
1 blossom	2 crimson			
99 blue	2 curtain	6 hair		1 tie
8 book		1 handsome	5 paint	1 tomatoes
1 bravery	14 danger	1 hat	4 paper	2 turkey
3 brick	6 dark	2 head	1 passion	
2 bricks	1 dashy	1 healthy	1 pencil	1 vivid
40 bright	1 dashlike	4 heat	1 pink	
2 brightness	18 dress	1 Hereford	1 plush	1 war
3 brilliant		1 holly	1 poinsettia	6 warm
1 brook	1 eat	1 hood	2 pretty	3 warmth
7 brown	1 Ed	1 horse	6 purple	1 whiskey
1 building		5 hot		97 white
2 bull	2 fiery	2 house	2 ribbon	1 wool
	81 fire		1 riding	1 world
1 cap	16 flag	2 Indian	2 robin	
1 cape	8 flannel	4 ink	16 rose	1 yarn
1 carpet	1 hashy	1 iron	2 rosy	15 yellow
1 ceiling				

37. SLEEP

94 awake	2 dead	4 eat	1 habit	1 midnight
1 awaking	7 death	1 enjoyable	1 happiness	1 myself
3 awaken	5 deep	1 enjoyment	3 health	
1 awakening	1 desire	1 enough	1 heavy	1 natural
	1 desperate	1 experiment	1 home	4 necessary
2 baby	1 dope	10 eyes	2 insomnia	1 need
1 beautiful	2 dormitory	1 fast		1 needful
75 bed	1 dose	2 fatigue	1 lady	1 nice
1 bedstead	4 doze	1 fine	1 leisure	49 night
2 calm	28 dream	2 forgetfulness	1 lain	
1 chance	10 dreams		3 lie	1 peace
2 child	6 droway	1 gentle	1 living	1 peaceful
1 children	8 drowsiness	1 girl	1 luxurious	2 peacefulness
1 coma	1 dullness	1 go	1 luxury	1 perfect
80 comfort	8 ease	5 good		5 pillow
	4 easy		1 meanderism	8 pleasant
				1 plenty

1 poorly	2 refreshment	1 senses	1 song	60 wake
1 potassium	bro-	1 relax	1 Shakespeare	4 wakefulness
mide		31 repose	1 sheet	1 wakened
2 profound	-300 rest	1 shut	16 sound	1 wakening
	14 resting	1 silence	3 soundly	4 waking
8 quiet	9 restful	1 sleepy	2 still	2 walk
2 quietness	4 restless	20 slumber	3 sweet	1 wanting
1 quietude	1 restore	2 slumbering	1 thinking	1 watchful
	2 restorer		26 tired	3 weariness
1 rage	1 retiring	4 snore	1 tiresome	1 weary
2 recline	1 rise	1 soft		1 well
1 reclining	1 rising	1 solace	12 unconscious	1 woman
7 refreshing			7 unconsciousness	

38. ANGER

1 abuse	5 disturbed	1 horror	1 nonsense	1 slow
1 aggravated	4 dog	3 hot	1 not	2 smooth
2 aggravation	1 downhearted	1 hot-headed	1 noticeable	1 sober
1 agony	1 duel	1 house		1 soft
2 amiability		1 humor	1 obey	1 soldier
1 amiable	3 emotion	1 hunger	1 out	1 sometimes
6 angry	2 enemy	1 hysteria	1 outrage	1 soothng
2 anguish	1 energy			10 sorrow
1 annoyance	1 enmity	1 ill	1 pain	1 spite
3 annoyed	1 excitability	4 impatience	51 passion	1 spiteful
1 appearance	3 excited	3 impatient	1 passionate	1 storm
1 aroused	4 excitement	1 Indian	3 patience	1 strike
1 awful	1 exclamation	1 indignant	6 peace	1 strong
		2 indignation	1 peaceful	1 suffering
18 bad	1 face	1 insanity	1 peevish	1 sulky
2 bitter	1 father	1 insult	2 person	1 swear
3 bitterness	9 fear	1 insulted	1 placid	1 sweetness
1 blow	4 feeling	1 intense	5 pleasant	1 sword
1 blows	1 ferocity	1 intensity	4 pleasure	
1 blush	1 fierce	1 intoxication	2 provocation	1 talking
8 boy	1 fiery	2 ire	1 provoke	2 teacher
1 breathing	8 fight	1 irritable	1 provoked	1 tears
	1 fighting		2 provoking	-149 temper
7 calm	1 fist	1 jealousy		1 temperament
1 calmness	1 flush	1 Jimmy	3 quarrel	1 terrible
2 cat	1 foolish	4 joy	2 quarreling	1 terror
1 catching	3 foolishness	1 joyful	1 quarrelsome	3 thought
2 cause	1 force	1 judgment	4 quick	1 torment
1 character	1 forgive		1 quickness	6 trouble
1 cheer	8 forgiveness	2 kind	6 quiet	1 turbulent
1 child	1 frenzy	2 kindness	1 quietness	1 turnoil
1 children	1 fret		1 quite	
1 choler	1 fright	1 laughter		1 ugliness
1 cold	1 frown	1 light	16 rage	4 ugly
8 command	1 frowning	2 lion	1 rarely	1 unbecoming
1 compose	1 fun	1 little	1 rashly	1 uncomfortable
5 control	2 furious	3 loud	1 rashness	1 unhealthy
1 cool	4 fury	5 love	1 raving	4 unpleasant
1 cranky		1 low	1 reason	
1 crazy	2 gentle		3 red	1 very
44 cross	3 gentleness	121 mad	1 remorse	3 vexation
2 crossness	1 giant	1 maddest	2 resentment	13 vexed
1 covetous	1 girl	18 madness	1 resistive	1 vicious
1 cruel	4 glad	2 malice	1 rest	1 violence
1 cry	2 gladness	6 man	1 restless	2 violent
	2 good	1 mean	8 revenge	1 voice
1 danger	1 great	4 meekness	2 riled	
1 deliberation	3 grief	1 mild	3 rough	1 war
1 despise	1 grieve	4 mind	1 roughness	5 wicked
1 devil	2 grouchy	2 mirth	1 rude	1 wickedness
4 disagreeable		2 myself		1 wish
1 disappointed	4 happiness		1 sad	
2 disappointment	2 happy	1 name	2 scold	4 woman
3 discomfort	3 harsh	1 nature	2 scolding	1 words
1 dishonor	2 haste	1 nerves	1 scowl	52 wrath
1 dislike	3 hasty	1 nervous	1 sedative	1 wrathful
1 disobedience	9 hate	1 never	1 selfishness	1 wroth
1 disobedient	1 hateful	1 nice	1 sharp	2 wrong
2 displeased	26 hatred	2 noise	1 horn	
2 displeasure	1 headache	1 noisy	1 sick	1 yelling
3 disturbance	1 horrid	1 none	1 sin	

39. CARPET

1 appearance	1 curtains	8 green	1 pattern	10 sweeper
1 article	1 dark	1 hall	1 pennant	1 table
1 beat	6 design	3 heavy	2 plush	8 tack
2 beating	1 designer	4 home	4 pretty	8 tacks
1 beater	2 dirt	4 house	2 protection	2 tapestry
2 beautiful	1 down			2 textile
1 beautifying	1 drag	2 ingrain	1 quick	2 thread
2 beauty	1 dullness			2 treat
1 bedroom	4 dust	1 lay	7 rag	
2 blue	1 duster	1 loom	3 rags	2 use
2 bright		1 lot	1 ragged	1 useful
1 broom	3 ease	3 luxury	8 red	
2 brown	1 electric		1 reddish	9 velvet
1 brush	1 expense	6 mat	1 refinement	
1 brushes		3 material	1 rich	15 walk
14 Brussels	2 fancy	10 matting	17 room	6 walking
	3 figure	1 mattress	2 rough	1 wall
1 chair	1 flat	1 microbes	163 rug	1 Wanamaker
1 chairs	-- 256 floor	1 moss	14 rugs	2 warm
3 clean	2 flooring			5 warmth
2 cleaning	2 foot	1 nail	1 shoes	1 weaver
1 cleaner	1 fur	1 neatness	1 small	1 weaving
20 cloth	1 furnishing	2 nice	8 smooth	1 wear
6 color	4 furniture	1 none	78 soft	1 white
1 colors			4 softness	1 wide
15 comfort	1 germs	7 oilcloth	2 stairs	1 wood
3 comfortable	2 good	1 oriental	1 stove	10 wool
2 cotton	4 goods	2 ornament	1 straw	7 woolen
27 cover	1 grain		7 sweep	1 worsted
76 covering	1 gray	3 parlor	3 sweeping	2 woven

40. GIRL

1 ankles	2 cute	8 hair	7 maid	6 sister
1 Annie		1 hand	13 maiden	2 sixteen
1 associate	2 dainty	5 handsome	1 maidenhood	1 skirts
1 baby	1 damsel	1 happiness	1 male	1 slender
1 Beatrice	1 dance	1 harmlessness	7 man	1 slight
8 beautiful	2 daughter	1 has	1 men	1 slim
6 beauty		3 hat	1 meek	8 small
9 being	1 delight	1 head	1 mischievous	1 smart
1 belt	1 diabolo	1 here	4 miss	1 smartness
1 big	1 domestic	1 hood	1 Miss S.	1 student
1 biped	1 Doris	1 hoop	1 modesty	1 studious
1 blonde	1 Dorothy	7 human	2 mother	3 study
1 blooming	1 dream	1 humanity	3 myself	1 stylish
1 book	8 dress			1 summer
— 350 box	4 dresses	1 immature	2 neat	4 sweet
3 boys		2 infant	2 necessity	1 sweetmeas
2 braids	1 Effie	8 innocence	11 nice	2 sweetheart
1 bright	1 Ethel	1 innocent	2 niece	
	1 eyes	1 intelligent	1 noise	1 talks
		1 Irene		4 tall
1 changeable	1 fair		1 Polar	1 thoughtless
1 cheerful	2 fellow	1 jealousy	18 person	
49 child	-- 77 female	2 jolly	1 petticoats	1 ugly
2 children	3 feminine	3 joy	2 play	1 useful
2 childhood	8 flesh		4 pleasure	
1 childish	1 flirtation	1 kid	20 pretty	1 vanity
1 choice	1 Frances		1 pupil	2 virgin
1 class	7 friend	20 lady		
1 classmate	1 futurity	1 large	1 quick	1 walk
1 clever		1 lasciv	1 rarely	1 water
4 clothes	1 garden	1 learning	1 running	2 weak
1 clothing	1 gay	3 little		1 white
1 Coleen	1 gentility	1 lively	1 saucy	1 wife
1 college	1 gentle	1 Limzie	18 school	61 woman
2 companion	1 Gertrude	8 love	3 servant	
1 cook	6 good	1 loving	4 sex	81 young
1 cunning	1 grace	4 lovely	1 shirk	1 youngster
2 curls			4 silly	24 youth

41. HIGH

9 above	2 dizzy	24 house	16 mountains	1 staff
5 air		1 houses	1 myself	1 stand
1 Alps	11 elevated	1 ideal	1 notion	13 steep
14 altitude	2 elevation	1 ideas		12 steeple
1 ascend	1 erect	1 immense	4 peak	1 stick
	2 exalted		1 pine	1 stone
1 bank	1 extended	2 jump	1 pinnacle	1 summit
1 beam			1 play	2 swing
1 beanstalk	3 fall	1 kite	8 pole	57 tall
3 big	2 falling	2 ladder	1 power	1 temperature
1 bridge	1 far	5 large	3 precipice	1 temple
24 building	1 fast	7 length		5 top
2 buildings	2 fear	1 lighthouse	2 reach	12 tower
	1 feet	20 lofty	1 rich	19 tree
1 Cathedral	3 fence	7 long	1 rocky	4 trees
4 ceiling	1 first	— 328 low	3 roof	
2 chair			1 room	26 up
2 church	2 giant	1 magnificent		1 upward
1 cliff	1 great	1 man	1 see	
1 climb		2 mast	1 shallow	1 valley
1 climbing	1 hat	1 measure	3 short	1 vision
7 clouds	1 heaven	3 medium	1 skies	
	3 heavens	1 Metropolitan	17 sky	5 wall
5 deep	1 heavenlyward	1 mind	2 skyscraper	1 waves
4 depth	14 height	2 idling	1 small	2 wind
1 dimension	20 hill	1 inconvenience	1 soft	1 woman
11 distance	4 hills	1 indolent	1 spire	
3 distant	1 hot	13 industrious		
		8 industry		
		1 intelligent		
2 horse		44 idle		
2 ease		10 idleness		
1 active	1 easiness	2 idling		
1 activity	4 easy	1 inconveniences		
1 always	2 eating	1 indolent		
1 ambition	1 effort	13 industrious		
5 ambitious	10 employed	8 industry		
1 anxious	1 employers	1 intelligent		
1 apron	4 employment	4 necessary		
1 attendant	2 energetic	2 interest		
	3 energy	2 Italian		
1 bent	2 engaged	1 job		
1 book	1 English	1 keeping		
2 boy	1 essay	17 labor		
2 broom	15 exercise	20 laboring		
6 business	1 exercising	1 labors		
51 busy	3 exertion	5 laborer		
1 carpenter	3 factory	1 ladies		
3 class	2 fair	1 late		
1 comfort	1 faithfully	2 laziness		
1 complication	1 farm	1 leisure		
2 content	1 fast	1 lack		
2 continually	3 father	1 ladies		
1 continuous	7 fatigue	1 late		
1 cooking	2 fatigued	2 laziness		
	1 field	18 lazy		
6 day	1 flowers	1 loaf		
1 difficult	1 foundry	5 loafing		
1 digging	1 function	1 Lillie		
1 diligence		1 little		
1 discomfort	2 girl	1 live		
2 do	4 good	2 livelihood		
10 doing		5 living		
1 done	2 hammer	5 loafing		
1 drawing	3 hands	1 loafer		
1 driving	1 happiness	1 lounging		
1 drudge	105 hard	2 machine		
1 dusting	2 health	1 machinery		
1 duties	1 healthy	1 machinist		
2 duty	1 hoeing			

42. WORKING

1 accomplish	2 earning	2 horse	1 making	1 prosperous
1 accomplishment	2 ease	1 hour	50 man	
3 active	1 easiness	1 house	6 men	1 quick
1 activity	4 easy		1 model	
1 always	2 eating	44 idle	4 money	1 railroad
1 ambition	1 effort	10 idleness	1 morning	1 reading
5 ambitious	10 employed	2 idling	3 motion	1 recreation
1 anxious	1 employers	1 inconvenience	2 movement	17 rest
1 apron	4 employment	1 indolent	5 moving	24 resting
1 attendant	2 energetic	13 industrious	1 mowing	1 result
	3 energy	8 industry	2 myself	1 rowing
1 bent	2 engaged	1 intelligent		8 running
1 book	1 English	1 interest	4 necessary	
2 boy	1 essay	2 Italian	1 necessity	1 salary
2 broom	15 exercise	1 job	1 neighbor	1 satisfaction
6 business	1 exercising	1 keeping	1 never	1 saving
51 busy	3 exertion	— 147 labor	1 night	6 school
1 carpenter	3 factory	20 laboring	1 noble	3 scrubbing
3 class	2 fair	1 labors	1 nothing	2 servant
1 comfort	1 faithfully	5 laborer	1 nursing	1 setting
1 complication	1 farm	1 lack		7 sewing
2 content	1 fast	1 ladies	1 obstetrics	2 shirking
2 continually	3 father	1 late	13 occupation	7 shop
1 continuous	7 fatigue	2 laziness	1 occupied	1 shorthand
1 cooking	2 fatigued	18 lazy	1 occupy	1 sickness
	1 field	1 leisure	2 order	1 singing
6 day	1 flowers	1 loaf	3 sitting	4 slave
1 difficult	1 foundry	5 loafing	1 patients	1 slavery
1 digging	1 function	1 Lillie	5 people	1 slaving
1 diligence		1 little	2 person	2 sleep
1 discomfort	2 girl	1 live	1 perspiration	8 sleeping
2 do	4 good	2 livelihood	8 play	1 slow
10 doing		5 living	22 playing	1 smart
1 done	2 hammer	5 loafing	1 pleasant	1 starving
1 drawing	3 hands	1 loafer	4 pleasure	2 steady
1 driving	1 happiness	1 lounging	1 plow	1 stenographer
1 drudge	105 hard	2 machine	1 plowing	2 strenuous
1 dusting	2 health	1 machinery	1 policy	1 struggle
1 duties	1 healthy	1 machinist	1 position	5 study
2 duty	1 hoeing		1 possession	5 studying

A STUDY OF ASSOCIATION IN INSANITY

1 sweep	1 thought	9 toiling	2 unemployed	1 weariness
3 sweeping	1 time	2 tools	2 useful	2 willing
1 swift	28 tired	1 treadmill	2 wages	2 woman
	3 tiresome	1 trouble	2 walking	1 work
1 table	1 tiring	2 trying	1 washerwoman	1 workman
2 task	1 to-day	1 typewriter	5 washing	1 world
1 thinking	7 toil			2 writing

43. SOUR

1 acetic	1 delight	1 juice	15 pickle	1 stomach
23 acid	18 disagreeable	2 kraut	26 pickles	2 sugar
1 acrid	1 dislike	1 man	1 pleasant	- 349 sweet
1 anger	3 disposition	81 milk	1 plum	
1 angry	4 distasteful	88 lemon	1 plums	17 tart
27 apple	1 drink	17 lemons	3 pucker	55 taste
10 apples		1 lime	8 quince	2 tasting
1 astringent	1 face			2 tasteless
	1 flavor			1 teeth
6 bad	3 fruit		1 rancid	1 turned
1 beer			1 repulsive	1 twinge
70 bitter	1 gall	8 nasty	5 rhubarb	
1 bitterness	4 good	1 naturally	1 rough	4 ugly
	1 goodness	8 nice		1 unhappy
8 cherries	3 grape	1 no		8 unpalatable
2 cider	36 grapes	1 nourishing	1 salty	18 unpleasant
1 cross	2 grapefruit		2 sauerkraut	1 unpleasantness
1 crowd	1 green	1 odor	1 sear	1 unsweetened
1 currants		2 orange	2 sharp	
	1 hate		1 soft	91 vinegar
1 dangerous	1 hurts	1 painful	1 song	
1 death		1 persimmon	1 spoiled	1 wholesome
				1 wine

44. EARTH

1 agriculture	115 dirt	1 growth	2 mould	5 sand
8 air	4 dirty	1 mouldy	81 sky	
1 ashes	1 dogs	2 habitation	4 mountain	1 smelly
	4 dry	4 hard	2 mountains	8 smooth
4 ball	9 dust	81 heaven	16 mud	2 sod
3 beautiful		1 heavens		5 soft
2 big	3 farm	2 heavy	4 nature	37 soil
7 black	1 farming	1 hell		1 solid
1 body	1 fence	1 hemisphere	1 object	2 solidity
2 broken	1 fertile	8 home	1 ocean	1 space
17 brown	1 fertilized	1 house	1 one	4 sphere
1 building	4 field	1 huge	1 orange	1 star
	1 fields			2 stone
1 cemetery	1 flag	1 inhabitable	1 paradise	2 stones
71 clay	8 floor		1 place	1 street
1 climate	1 flower	28 land	17 planet	1 substance
1 cloud	8 flowers	7 large	2 plant	4 sun
1 coffin	1 foot	1 level	5 plants	8 surface
2 cold	1 foundation	8 live	1 planting	
1 color	1 fresh	2 living	1 pleasure	1 travel
2 Columbus	1 fruitful	8 loam	1 potential	4 tree
1 continent	1 Fuller's	1 lot	1 productive	5 trees
2 corn		2 low	1 put	
2 country	8 garden			1 unfertile
1 cover	1 geranium	1 man	1 rain	8 universe
1 creation	16 globe	2 map	1 rampart	
1 crunching	2 grain	8 Mars	1 rest	1 vastness
1 crushed	1 grand	1 mass	1 revolution	1 vegetable
5 crust	11 grass	1 material	4 rich	
	8 grave	1 matter	1 river	3 walk
5 damp	2 gravel	1 metal	1 road	10 water
10 dark	1 gravity	1 mine	2 rock	1 wide
1 delve	2 great	1 mineral	2 rocks	1 wood
2 depth	8 green	8 moist	61 round	46 world
1 dig	1 greenhouse	11 moon	1 roundness	5 worm
2 digging	— 166 ground	8 mother		2 worms

45. TROUBLE

2 accident	1 disagreeable	3 health	20 pain	1 table
4 affliction	2 disagreement	1 heart	2 patience	1 task
3 aggravation	1 disappoint	1 heaviness	2 patient	9 tears
6 anger	3 disaster	1 hemorrhage	1 patients	1 teasing
8 angry	7 discomfort	2 home	15 peace	1 temper
1 anguish	2 discontent	1 horror	3 peaceful	1 temptation
1 annoy	3 disease	1 horse	3 people	2 thought
2 annoyed	2 dislike	1 hurried	1 perplexed	1 thoughts
5 annoyance	1 disobedience	1 husband	1 perplexity	1 torment
15 anxiety	1 displeased	1 idea	3 person	1 travel
2 avoid	1 displeasing	2 illness	1 pity	1 trial
11 bad	2 displeasure	1 imaginary	10 pleasure	3 trials
1 begins	1 dissatisfaction	2 inconvenience	1 plenty	5 troublesome
1 black	2 disturbed	9 joy	2 poor	
1 borrowed	1 doctor	1 kindness	2 poverty	1 ugly
1 borrows	1 dogs	1 kinds	1 psychologist	1 unavoidable
4 bother	4 ease	1 labor	3 quarrel	1 uncertainty
2 bothered	1 easiness	1 laugh	3 quiet	2 uncomfortable
1 bothersome	1 easy	1 lawyer	1 quietness	6 uneasiness
1 brains	1 ended	1 lessons	1 release	13 unhappiness
1 brewing	1 enemies	2 life	1 relief	8 unhappy
1 broke	1 enemy	1 little	1 remorse	1 unlucky
1 burden	1 error	1 lonesome	1 rest	2 unnecessary
1 burdens	1 everywhere	1 exams	2 reverses	5 unpleasant
1 business	1 excited	1 excited	1 Romeo	3 unpleasantness
1 busy	2 excitement	5 lots	1 ruffled	1 unrest
1 calm	8 family	2 mad	6 sad	1 unsafe
1 calmness	1 father	1 madness	13 sadness	2 unsatisfactory
27 care	3 fear	5 man	1 school	1 unsettled
3 cares	1 feeling	1 many	1 scrape	2 upset
1 careless	1 few	2 marriage	1 sea	
4 children	5 fight	2 me	1 seldom	1 want
1 college	2 fighting	10 mind	1 sereness	2 war
6 comfort	1 flunking	1 minded	1 shadow	1 weak
1 comfortable	1 fret	8 mischief	1 ship	3 weary
2 coming	1 friends	1 miserable	1 shooting	2 welfare
1 consequences	1 fun	14 misery	47 sickness	1 woe
2 contented	1 funeral	6 misfortune	5 woman	
1 contentment	1 great	1 misfortune	1 simple	1 women
1 court	8 fuss	1 misunderstanding	1 sin	8 work
1 cry	2 girl	4 money	1 sleep	1 worked
1 crying	2 gossip	1 monotony	1 sometimes	1 working
6 danger	2 great	1 mother	- 202 sorrow	3 worried
1 darkness	26 grief	1 Mrs. Wiggs	1 sorrow	2 worries
1 day	5 much	5 much	4 sorrowful	65 worry
16 death	1 handkerchief	1 nervousness	1 sport	1 worrying
2 deep	19 happiness	3 no	1 squabble	2 worriment
2 despair	8 happy	2 noise	1 study	2 wrinkles
2 difficult	5 hard	4 none	1 suffer	2 wrong
1 difficulties	6 hardship	1 nuisance	1 suffering	
1 difficulty	1 harm	1 nuisance	1 sweetener	1 yesterday
			2 sympathy	1 youth

46. SOLDIER

1 academy	1 braveness	1 colonel	1 drums	1 fortune
1 armies	8 bravery	6 command	4 duty	4 general
187 army	1 Brazilian	1 commanding		1 Germany
8 arms	1 brother	8 commander	1 enemy	1 glory
1 Arnold	2 buttons	1 costume	1 England	3 good
2 artillery	4 cadet	4 country	1 English	1 Grant
1 baseball	2 camp	5 courage	3 erect	8 guard
8 battle	2 cannon	1 danger	1 fellow	1 guardian
1 bayonet	1 cap	2 defender	17 fight	1 guardsman
1 blood	8 captain	1 defense	1 fights	27 gun
1 blue	8 cavalry	2 discipline	12 fighter	2 guns
23 boy	14 citizen	1 disliked	12 fighting	
1 boys	8 civilian	1 double	1 firearm	1 helmet
46 brave	1 clothes	2 drill	2 fort	3 hero

A STUDY OF ASSOCIATION IN INSANITY

1 him	2 marshal	5 patriot	1 salute	1 training
1 hobo	2 mechanic	1 patriotic	1 sentry	1 United States
1 home	17 military	1 patriotism	1 servant	1 troop
1 hurt	3 militia	8 person	1 service	1 troops
	1 murder	1 Philippines	1 show	
2 infantry	1 music	1 police	1 sick	39 uniform
	2 musket	6 policeman	1 single	1 United States
1 jacky	1 N.	1 protection	1 smart	3 upright
1 Jim	1 nation	2 protector	1 sorrow	1 uprightness
1 king	1 national	1 proud	1 staleness	
	2 navy	4 red	1 store	1 valiant
5 lieutenant	1 necessary	1 redcoat	3 straight	3 veteran
	1 mobility	1 regiment	1 strength	3 volunteer
3 male		2 regular	1 strenuous	
— 189 man	1 obedience	1 respectable	1 strict	94 war
4 men	1 obey	1 Richmond	4 strong	1 warfare
1 manly	12 officer	3 rifle	2 sword	12 warrior
12 march	1 officers			3 West Point
5 marching	1 order	58 sailor	2 tall	2 widow
1 marine	2 orderly	1 sailors	1 tent	2 work
			4 tin	

47. CABBAGE

1 away	20 eat	20 head	3 onions	2 soup
	6 eating	1 heads		4 sour
1 bad	6 eatables	1 healthy	1 paper	1 spice
2 beans	8 eatables	2 heavy	1 parsley	1 spinach
11 beef		1 herb	16 patch	1 sprouts
1 beet	11 farm	1 home	48 plant	8 stalk
2 beets	1 farming	2 herid	3 plants	1 stew
1 boiled	3 field		1 plantation	1 stinkling
1 broth	2 fields		1 planted	1 strong
1 bud	2 fine	1 kale	1 planting	1 sustenance
1 bunchy	4 flower	2 kraut	1 plate	3 sweet
	22 food		6 pork	
2 carrot	7 fruit		6 potato	8 taste
1 carrots		8 large	18 potatoes	1 tender
1 catsup	43 garden	9 leaf	1 purple	2 tomato
17 cauliflower	1 German	11 leaves	1 quart	2 tomatoes
	1 Germans	11 letters		— 20 turnip
1 cigar		1 lot		6 turnips
1 cold-slaw	1 goat		2 rabbit	
1 cook	13 good		3 red	1 unnecessary
4 cooking	44 green	2 meal	2 rose	1 unwholesome
1 corn	3 greens	8 meat		
1 cucumbers	2 ground	2 Mrs. Wiggs	4 round	
1 cut	1 grow	1 mustard	5 salad	— 1 Valhalla
	1 grows			— 204 vegetable
1 decayed	2 growing	1 nice	17 sauerkraut	10 vegetables
1 disagreeable	1 growth	1 nothing	2 slaw	4 vinegar
2 dish			11 smell	1 Virginia
1 dislike	1 ham	2 odor	1 soupy	
4 dinner	3 hard	2 onion	2 solid	1 white

48. HARD

2 adamant	2 cabbage	1 earth	3 glass	1 indestructible
8 apple	1 callous	1 earthen	1 glittering	1 individual
1 apples	2 candy	17 easy	1 gold	1 indurated
	1 can't	2 egg	2 good	1 inflexible
2 bad	2 chair	1 eggs	1 granite	1 injurious
5 ball	1 character	1 examination	2 ground	1 irksome
1 baseball	7 coal			44 iron
1 bed	1 coarse	1 fare	1 hammer	
1 bench	1 cold	1 farmer	2 harsh	1 kind
1 blackboard	1 crystallized	1 fairy	2 heart	
6 board		4 feeling	2 hearted	-1 labor
2 boards	1 dense	11 firm	2 heavy	2 lead
1 bone	2 diamond	2 firmness	2 hickory	2 lesson
1 bread	5 difficult	1 flat	1 hurt	1 lignum-vitis
1 break	1 disagreeable	4 flint		2 life
12 brick	1 do	10 foot	8 ire	1 low
2 brittle	1 durability	1 formidable	1 immovable	-8 luck
3 bullet		1 fruit	1 impenetrable	

1 maple	— 2 pavement	1 rocky	1 strength	1 uneasy
— 3 marble	1 perplexing	11 rough	4 strong	1 unimpressionable
1 mathematics	1 physics	1 saltpetre	1 stuff	2 unpleasant
2 mean	1 piano	1 severe	6 substance	1 unpliant
2 medium	1 principle	1 sidewalk	5 table	1 unripe
5 metal	1 pulpy	15 smooth	1 tack	1 unyielding
1 murder		— 37 soft	1 thick	1 uselessness
1 mush	1 quality	15 solid	1 tight	
	1 questions	1 stale	2 touch	1 very
1 nail		14 steel	12 tough	
1 nails	1 raining	1 stick	2 tree	1 walnuts
1 natural	4 resistance	1 stingy	1 trouble	2 water
1 nut	1 resistant	102 stone	1 turnip	1 wisdom
1 nuts	1 rigid	1 stones		— 66 wood
	1 road	1 stony	5 unbreakable	19 work
1 oak	38 rock	2 stove	5 uncomfortable	2 working
1 opaque	4 rocks			

49. EAGLE

8 air	1 cruelty	1 graceful	3 paper	1 spread
1 altitude	4 dollar	1 gray	1 parrot	11 strength
7 America	5 dove	1 great	1 partidge	3 strong
12 American		18 hawk	1 peacock	1 sun
4 animal	8 emblem	1 height	2 pigeon	3 swallow
1 aspiring	1 eggs	21 high	2 power	1 swan
	12 eye		5 prey	4 swift
1 bald	1 eyed	1 insect	1 quail	1 sword
8 beak	1 eyry	1 insignium	1 quarry	
2 beast				1 talon
2 bill	1 falcon			1 talons
— 668 bird	7 feathers	1 keen	1 robin	1 tern
6 birds	1 fierce	4 king	1 rock	1 Times
1 birdie	2 flag	9 large	1 scarce	1 turkey
1 black	6 files	1 lark	8 sharp	
1 butterfly	22 flight	1 liberty	1 sight	2 United States
2 buzzard	1 flint	2 lofty	2 sky	
	46 fly		2 sly	3 vulture
1 carnivorous	28 flying		5 soar	
1 carrion	2 flyer	2 might	8 soars	8 wing
1 chickens	8 fowl	14 mountain	14 soaring	16 wings
2 claws	8 freedom	8 mountains	1 solitude	
1 clouds			1 space	
1 contour	1 glare	12 nest	1 space	1 young
1 crag	1 glorious		6 sparrow	
3 crow	2 golden	4 owl	1 sport	2 Zoo

50. STOMACH

32 abdomen	8 cancer	1 dress	5 gastric	2 internal
81 ache	1 care	1 duodenum	1 Gertrude	23 intestine
21 anatomy	2 careful	4 dyspepsia	4 good	32 intestines
2 animal	1 cat		1 grind	
5 appetite	1 cavity	45 eat	2 grinding	1 juice
1 apples	1 chart	27 eating		
2 arm	18 chest	8 empty	2 hand	4 large
	2 condition	1 coll.	1 hands	1 leg
1 back	1 contain	1 excellent	9 head	1 limb
1 bad			5 health	18 liver
7 bag		1 face	24 heart	1 living
1 basket	1 delicate	1 fat	1 hog	1 lung
2 beast	1 diaphragm	1 feed	6 hunger	3 lungs
1 beef	6 digest	1 feeding	6 hungry	
6 belly	1 digesting	1 feet	2 hurt	1 machinery
1 belt	50 digestion	— 102 food	1 hurts	5 man
	3 digestive	2 ^o foot	1 hygiene	1 meal
99 body	2 digests	1 flesh		1 meals
18 bowels	7 dinner	1 frame	1 illness	5 member
1 brain	1 disease	1 front	17 indigestion	1 milk
1 bread	1 distress	7 full	5 inside	1 mortal
1 breast	2 doctor	1 function	2 interior	3 mouth
				1 muscle

A STUDY OF ASSOCIATION IN INSANITY

2 nausea	28 pain	8 receptacle	1 specimen	5 troublesome
3 necessary	3 part	2 reservoir	1 strong	1 trunk
1 necessity	9 person	1 rest	1 suffer	3 tube
1 neck	3 physiology	3 round	1 suffering	
1 nuisance	1 picture		1 sustenance	1 upset
	2 poor	1 self	2 system	1 useful
1 object	1 portion	10 sick		
1 oblong	4 pouch	7 sickness	1 tender	2 vessel
4 oesophagus	1 psychology	1 skin	1 tenderness	
81 organ	3 pump	2 small	1 thought	1 want
3 organs	2 punch	4 soft	1 throat	1 water
1 overeating		1 sore	2 tongue	3 weak
1 overloaded	1 receiver	2 sour	25 trouble	1 weakness
			1 troubles	1 work

51. STEM

1 anything	1 ending	1 leg	3 piece	1 stiff
1 appendage	1 evolution	3 length	70 pipe	1 stone
43 apple		1 lettuce	1 pit	1 stop
1 apples	1 fibre	1 life	74 plant	1 storm
	2 fibres	2 light	1 plow	2 straight
1 base	1 finger	1 lily	6 point	8 support
3 beginning	259 flower	4 limb	1 poppy	
1 blade	7 flowers	1 living	1 projection	4 thin
3 blossom	2 foundation	18 long	1 prop	2 thorn
1 boat	14 fruit			2 tide
1 body		1 match	1 reed	1 tobacco
1 brain	1 grass		1 river	1 top
33 branch	9 green	1 necessity	1 rod	44 tree
1 branches	3 growth		27 root	2 trees
1 broad		1 object	1 roots	3 trunk
1 broom	20 handle	1 offshoot	21 rose	7 twig
4 bud	1 hard	1 organ		
5 bush	1 head		2 shank	1 valve
1 butt	2 hold	4 part	6 short	1 violet
	1 holding	1 parts	7 slender	3 vine
2 cane	4 holder	1 particle	1 small	
2 cherry	1 holes	2 peach	1 smoke	7 watch
3 connection		9 pear	1 soft	2 water
1 connects	1 join	1 peduncle	21 stalk	3 weed
2 cord		3 pencil	2 steps	3 wind
2 core	96 leaf	4 petal	6 stern	2 winding
	4 leaves	1 pick	14 stick	3 winder
10 end				4 wood

52. LAMP

1 Aladdin	1 crockery	8 glass	1 match	1 shadow
1 arc		7 globe	1 small	1 small
6 articles	1 dangers		1 nickle	4 smoke
	3 dark	3 high	4 night	1 smokes
5 black	2 darkness	1 home		1 smoking
1 blaze	1 daylight	1 hot	49 oil	1 smoky
1 brass	1 distance	1 house	1 ornament	2 stand
12 bright	1 dull			1 stove
3 brightness		2 illumination	.1 petroleum	1 student
20 burn	5 electric		5 post	
10 burning	1 evening	7 kerosene	1 pretty	8 table
3 burner				1 tall
1 burns	5 fire	1 lantern	2 reading	
	1 flame	2 large	1 red	2 useful
13 candle	1 full	1 library	1 Rochester	
2 chandelier	2 furniture	—650 light	2 room	2 vessel
1 cheer		2 lights		
27 chimney	4 gas	4 lighted	2 see	1 warmth
1 convenience	1 glaring	1 lighten	37 shade	23 wick
		2 lit		1 wisdom

53. DREAM

1 absence	1 eyes	2 lie	1 psychology	1 stale
1 angel	2 falling	1 like	1 purple	1 startling
1 angels	9 fancy	2 love	1 story	1 story
1 anger	1 forgotten	1 M.	1 queer	14 sweet
1 anything	1 fantasy	2 man	1 quiet	
6 asleep	1 fear	1 mare		1 talk
11 awake	1 feeling	1 meditate	1 realization	1 terrible
1 awaking	1 feelings	1 melancholy	1 recollection	3 things
1 awaken	1 forgotten	1 melody	1 relax	29 think
3 awakening	1 fortune	1 mesmeric	1 remember	8 thinking
	1 funny	8 mind	2 repose	88 thought
2 baby		1 money	1 reposing	22 thoughts
16 bad	1 girl	1 music	3 rest	1 tiring
4 beautiful	7 good	2 nature	6 restless	1 trouble
11 bed	1 goodness	1 never	1 restlessness	2 true
3 bliss	1 grand	3 nice	2 reverie	
1 book	1 grieving	42 night		1 uncomfortable
1 boy		24 nightmare	1 sadness	1 unconscious
1 comfort	3 happiness	1 no	1 scene	1 unconsciousness
2 consciousness	1 heaven	1 none	1 second	1 uneasiness
1 conversation	3 home	1 nonsense	1 semiconscious	2 uneasy
	1 hope	2 opium	1 sensation	1 unfortunate
1 dangerous	3 horrible	1 object	1 sense	5 unpleasant
1 darkness		1 omen	1 shade	1 unpleasantness
1 days	1 idea	1 on	1 shadows	2 unreal
2 death	3 illusion	1 opium	1 short	1 unrest
1 delusion	1 image	2 phantoms	2 sickness	
1 delusions	2 imaginary	1 paradise	1 sight	1 vacancy
1 disagreeable	12 imagination	5 patients	1 sights	1 vagueness
1 disappointment	5 imagine	1 peace	— 339 sleep	48 vision
1 discontent	1 imaginings	2 peaceful	39 sleeping	6 visions
2 disturbance	2 impression	1 phantoms	2 sleeper	1 vivid
1 disturbing	2 indigestion	3 picture	2 sleepiness	
1 doze	1 insanity	1 pillow	1 slept	9 wake
1 dread	1 inspiration	1 play	20 slumber	1 waking
2 dreary	1 kind	38 pleasant	1 something	1 wander
1 easy	*	13 pleasure	1 somnambulist	4 wandering
1 expectation	1 land	1 presentiment	2 snore	1 weird
1 experiment	2 languid	1 prophecy	1 soliloquy	2 wonder
				1 woods
				1 work

54. YELLOW

1 alive	1 coarse	9 flowers	2 fly	34 red
2 amber	301 color	3 fruit	1 maize	1 ribbon
3 apple	1 coloring	1 G.	1 man	9 rose
1 autumn	1 common	1 garments	1 marigolds	1 satin
	1 complexity	1 gay	1 matter	1 school
5 banana	1 corn	1 glare	1 mellow	1 seal
3 beautiful	2 cream	13 gold	1 melon	4 shade
2 beauty	1 crocus	5 golden	1 molasses	1 silk
1 becoming	8 daffodil	1 goldenglow		2 sky
8 bird	3 daffodils	5 goldenrod	1 nature	2 soft
24 black	6 daisy	1 goods	1 nice	1 spectrum
1 blossoms	7 dandelion	1 gorgeous		1 suit
41 blue	6 dark	1 grass	1 obnoxious	1 sulphur
23 bright	1 delightful	41 green	1 ochre	21 sun
2 brightness	1 desert	2 hair	47 orange	8 sunflower
1 brilliant	1 disagreeable	2 house		7 sunlight
13 brown	1 dog	1 hue	5 paint	1 sunshine
1 buff	1 door		2 pale	
7 butter	1 dream		3 pansy	1 table
11 buttercup	9 dress	1 ink	4 paper	2 tan
2 buttercups	1 dresses		2 peach	1 tarnish
8 butterfly	1 dull	2 jasmine	1 pears	1 tree
4 canary		3 jaundice	1 pillow	
1 cat	1 ecru	6 jealousy	13 pink	1 ugly
2 China	1 egg	1 jonquill	1 plague	1 unharmonious
3 Chinaman		2 journal	1 poppy	2 violet
3 Chinee	1 fade	2 kid	4 pretty	
2 Chinese	1 fancy		1 primrose	1 wagon
1 chrome	1 fence	2 leaf	2 pumpkin	1 warm
1 chrysanthemum	3 fever	1 leaves	1 pumpkins	1 warmth
1 chrysanthem-	4 flag	7 lemon	1 pure	1 wax
mums	1 flame		5 purple	1 wheat
3 cloth	38 flower	14 light		70 white

55. BREAD

1 appetite	6 crust	2 grain	1 milk	1 sour
2 bake	1 cut	1 ham	1 mixing	8 staff
4 baking	3 daily	1 hand	1 necessary	8 stale
3 baker	4 diet	8 hard	2 necessity	1 strengthen
1 bakery	6 dinner	2 heavy	1 needful	2 substance
14 biscuit	1 dish	1 holes	4 nourishment	1 substantial
2 biscuits	26 dough	2 home		1 sugar
4 blue	1 doughnuts	1 hot	1 oatmeal	1 sustenance
1 board		7 hunger		4 sweet
1 box	1 earn	4 hungry	1 pantry	8 table
2 breakfast	148 eat	8 knife	1 pastry	2 tea
3 brown	44 eating		1 plate	1 toast
1 buns	28 eatable		1 pudding	1 tough
151 butter	6 eatables	28 life		
	1 edible	8 light	1 roll	1 useful
15 cake		1 living	2 rolls	
1 cheese	1 feed	7 loaf	6 rye	9 water
1 children	88 flour	1 lunch		21 wheat
1 color	→ 191 food		1 salt	15 white
1 common	8 fresh	1 making	1 salty	1 wholesome
1 cookies	2 fruit	2 man	1 satisfaction	1 wine
1 corn		1 meal	1 sister	
1 crackers	21 good	5 meat	8 soft	1 winner
1 crumbs	2 graham			8 yeast

56. JUSTICE

2 action	8 do	1 have	1 merit	4 satisfaction
2 administered	2 doing	1 heaven	1 mind	1 satisfied
1 administration	1 done	1 help	1 moral	1 satisfying
2 all	1 Dr. E.	1 him	1 mother	5 scales
1 always	5 duty	5 honest		2 severe
1 ask		3 honesty	1 never	1 severity
1 authority	1 elusive	7 honor	1 nobility	1 sorrow
	1 emblem		1 noble	8 square
1 B.	1 employer	1 impartial	1 none	1 aquarescence
1 bad	1 energy	1 iniquity	1 nonsense	1 squire
1 bed	3 equal	1 injury		
8 blind	9 equality	26 injustice	1 obey	4 statue
1 blindfolded	1 equally	1 innocent	1 obtain	8 supreme
1 body	8 equity		1 oppression	2 sure
	2 even	1 J.	4 order	
1 caught	1 exactness	2 jail		1 tranquility
1 charity	1 execution	1 joy	1 pardon	6 true
1 chastise		91 judge	4 partiality	14 truth
1 chief	82 fair	1 judged	148 peace	2 truthfulness
1 clearness	21 fairness	6 judgment	1 perfect	
1 comfort	1 favor	3 jury	1 person	1 unbias
8 command	1 fear	5 just	1 picture	1 unfairness
1 commanding	1 fine	4 justified	1 Plato	1 unhappiness
1 conqueror	6 freedom	6 kindness	1 police	8 unjust
1 constable	1 friendship		1 policeman	1 uprightness
64 court			1 politician	
2 courts	1 gift	1 lacking	1 popular	1 vengeance
1 Creator	1 give	1 large	1 power	8 virtue
1 crime	8 given	74 law	1 privilege	
1 criminal	8 God	2 lawful	1 purity	2 well
2 cruelty	1 godliness	4 lawyer		1 wicked
	14 good	3 lenient	1 reason	1 willingness
1 dealing	2 goodness	11 liberty	2 reward	2 wisdom
1 deeds	1 govern	1 lots	→ 157 right	1 wise
1 defying	8 government	1 love	3 righteous	2 work
1 delayed	1 guilty		18 righteousness	8 wrong
1 demand		2 magistrate	1 rightly	
1 deserved	1 happy	18 man	1 rightness	1 yes
2 dispute	1 harm	1 merciful	11 rights	1 yield
1 distribution	1 hasty	28 mercy	1 ruler	

57. BOY

2 action	1 dog	1 incorrigible	1 mother	3 son
2 active	1 Edward	1 industrious	1 muscles	1 spirit
2 activity	1 eighteen	2 infant	1 myself	1 spoiled
1 agility	1 embryonic	1 inhabitant		2 sport
3 animal	1 errand	1 innocent	1 naughty	1 street
3 athletic			2 Ned	2 strength
2 athletics		1 jacket	1 nephew	2 suit
	1 fair	2 James	1 newspaper	3 strong
6 baby	3 female	1 Jimmy	3 nice	1 sweetheart
9 bad	1 fight	1 Joe	7 noise	1 swimming
10 ball	1 flesh	1 joyful	3 noisy	3 tall
1 barefoot	1 foolish	1 jump	1 nuisance	1 terror
5 baseball	1 football	1 jumper		1 think
1 beautiful	1 Frank	2 juvenile	1 obedient	1 Thomas
6 being	4 friend		1 out	2 top
1 Ben	2 frolic	4 kid	6 pants	1 toys
2 body	4 fun	7 lad	1 Paul	1 Tracy
1 boisterous	1 funny	2 large	11 person	1 trait
1 book		1 laugh	20 play	1 tramp
2 bright	1 games	1 legs	1 plays	1 trouble
6 brother	810 girl	2 life	1 playful	
2 busy	7 good	3 little	1 playfulness	1 useless
	1 growth	3 lively	2 pupil	
1 cap	1 growth			1 walk
1 careless	2 gun			1 water
1 Charles		1 maid	6 rough	1 whistle
1 chicken	1 handsome	68 male	1 running	1 whistles
86 child	1 Harry	104 man	1 runs	1 wicked
1 children	1 hat	1 manhood	1 scallywag	2 wild
1 class	1 head	1 mankind	2 scamp	1 wilderness
1 clothes	1 hearty	1 manliness	1 scholar	2 woman
1 clothing	1 hero	1 manly	11 school	1 woods
2 companion	2 hood	1 marbles	4 sex	1 work
1 cousin	2 hoop	3 masculine	1 sharp	1 working
1 curl	9 human	2 master	2 shoes	
	1 humanity	1 meanness	1 Michael	22 young
1 dead		1 Michael	14 small	1 youngster
1 development	1 imbecile	11 mischief	2 smart	33 youth
2 dirty	1 imperfect	7 mischievous	1 smiles	1 youthful

58. LIGHT

1 agreeable	231 dark	1 glare	7 morning	1 sign
8 air	98 darkness	1 gleam	8 sky	
1 airy	2 dawn	3 good	1 soft	
1 arc	81 day		1 sound	
1 assistance	2 daylight	2 hair	1 necessity	1 space
1 awake	6 daytime	4 happiness		1 splendor
	1 dimness	1 health	1 paper	1 steam
1 beacon	1 distance	1 healthy	1 pathway	85 sun
2 beautiful	1 dress	1 hearted	1 peaceful	1 sunlight
1 beautifying	1 dull	8 heat	1 pink	11 sunshine
1 beauty		1 heaven	1 pipe	1 swift
1 biscuit	2 early	5 heavy	1 placid	
8 black	1 easy	1 hills	8 pleasant	1 transparent
2 blue	1 education		1 pleasure	1 truth
1 bread	7 electric	1 illuminate	1 plenty	1 twilight
47 bright	8 electricity	7 illumination		1 ventilation
21 brightness	1 element		2 rays	1 Vera
8 brilliant	1 emptiness	1 joy	1 red	1 vibration
1 brown	1 enjoy		1 reflection	2 vibration
2 burn	1 evening	1 kerosene	1 right	2 vision
1 burning	1 eyes	1 knowledge	3 room	1 vivid
				1 waist
8 candle	1 fair	1 laboratory	24 see	2 warmth
1 cheer	6 feather	82 lamp	8 seeing	1 waves
2 clear	1 feathers	1 lamps	1 seen	1 weak
2 clearness	6 fire	7 life	8 shade	2 weight
2 coat	1 flame	1 long	2 shadow	8 white
19 color	1 fleshy	1 look	1 shadows	2 whiteness
2 comfort	1 forward	1 luminous	2 shine	15 window
1 complexion	1 fuel		2 shines	1 world
1 convenient		1 match	2 shining	
1 cork	21 gas	10 moon	8 sight	6 yellow

59. HEALTH

1 action	8 desirable	111 happiness	1 optimism	5 sound
2 activity	9 disease	7 happy	1 pain	1 spirit
9 air	4 doctor	1 haste	1 perfect	1 spirits
1 athletics	1 eating	1 healing	6 person	1 state
5 bad	5 enjoyment	1 healthy	3 physical	1 strength
1 baseball	2 everything	1 heaven	1 physician	81 strong
1 beautiful	1 excellent	2 holiness	1 physiology	1 sturdy
10 beauty	1 excursion	2 hygiene	1 play	1 success
1 better	3 exercise		2 pleasant	
4 blessing	1 existence	8 ill	14 pleasure	1 temper
1 blood	1 face	18 illness	1 plenty	2 thankful
1 board	2 feel	6 joy	2 poor	1 trouble
9 body	12 feeling		1 preserve	
1 boon	2 fine	5 life	1 proper	1 unhealthiness
2 boy	4 food	1 light	4 prosperity	3 unhealthy
1 broad	2 fortune	1 live	1 quick	2 useful
2 buoyancy	1 form	3 living		1 valuable
1 care	1 freedom	2 luck	1 red	11 vigor
1 careful	1 fun	1 luxury	3 riches	1 virility
1 cheer			9 robust	
1 circulation	3 gift	4 man	1 rose	1 walking
1 cleanliness	1 girl	1 me	3 rosy	2 want
1 climate	2 gladness	3 medicine	1 round	1 warm
1 color	1 glow	1 merriment	2 rugged	1 water
26 comfort	1 golf	1 mother		1 weakness
6 condition	94 good	1 mountain	1 self	76 wealth
1 constitution	1 goodness	1 moving	9 sick	68 well
1 consumption	2 grand		2 sickly	1 wholesome
1 contentment	1 gymnasium	1 necessary	— 153 sickness	1 woman
1 convenience	1 gymnastics	1 needed	1 smiles	1 wonderful
2 country		1 needful		
		4 normal		1 youth

60. BIBLE

1 academy	1 encyclopedia	1 Jacob	1 paper	1 sour
1 all	1 excellent	4 Jesus	1 plity	1 stones
1 ancient		2 knowledge	2 plous	2 stories
	1 fable	1 Koran	3 pray	4 story
1 beauty	1 faith		2 praying	1 strength
1 belief	2 family	4 large	10 prayer	2 studies
1 beneficial		3 law	7 prayers	6 study
2 black	1 Genesis	1 leaf	18 prayer-book	6 Sunday
888 book	1 glass	1 leaves	2 preacher	
1 books	48 God	1 lectern	1 preaching	8 table
	22 good	1 legend	1 prophet	1 teach
1 catechism	12 goodness	2 lie	4 psalms	1 teacher
8 Christ	3 gospel	3 life		1 teachings
8 Christian	1 gospels	2 light	1 rarely	24 testament
50 church	1 grand	2 literature	21 read	4 text
8 class	1 guide	5 Lord	19 reading	1 tradition
1 clean		2 love	1 reformation	2 true
1 clergymen	2 heaven		89 religion	17 truth
2 comfort	1 heavy	1 message	4 religious	1 truthfulness
2 command	1 help	1 mine	1 reverence	
1 commandment	28 history	3 minister	1 righteous	1 unnecessary
2 commandments	5 holiness	2 Moses	3 rot	2 useful
1 creed	57 holy	1 mother		
	2 home		3 sacred	1 verses
1 devotion	1 hope	1 necessary	2 Saviour	
1 directions	2 hymns	1 noble	2 school	1 weariness
1 drama			17 scripture	8 word
2 duty	1 instructive	2 obey	3 scriptures	1 words
		1 open	1 sermon	2 worship
			1 shelf	1 writ

61. MEMORY

2 absent	1 English	5 intelligence	1 patient	1 song
1 acquire	1 Europe	1 interpret	1 pen	2 sound
1 aid	2 events	1 invisible	2 perception	1 splendid
1 analysis	1 everything	1 joy	2 person	1 stanza
1 ancient	2 excellent	1 keep	2 picture	1 storehouse
2 association	1 experiment	1 know	1 pictures	1 story
1 attention	1 faces	4 knowledge	1 pleasantness	1 strengthen
1 attitude	1 faculty	1 learn	2 pleasure	1 strong
1 aunt	1 failing	2 learning	3 poem	1 student
1 back	1 fails	1 lecture	1 poems	4 study
19 bad	4 fair	1 length	7 poetry	1 studying
1 beautiful	1 fancy	2 lessons	23 poor	1 sure
1 bird	1 far	1 language	1 power	7 sweet
3 blank	1 farther	1 lasting	1 psychology	1 swift
2 book	1 fascination	1 learn	1 quick	1 swing
3 books	1 faulty	2 learning	1 reading	1 teacher
46 brain	1 feeling	1 length	1 reason	1 tender
5 brains	1 fine	2 lessons	4 recall	5 test
1 brightness	1 fleeting	1 light	2 recalling	1 thankful
1 bucket	1 fond	3 long	3 recognition	1 things
1 catechism	1 fool	1 loss	2 recollect	58 think
1 cause	25 forget	1 love	16 recollection	38 thinking
1 charming	5 forgetful	4 mental	3 recollections	1 thinks
4 childhood	37 forgetfulness	1 magnificent	1 reflect	81 thought
1 clear	5 forgetting	3 man	27 remember	28 thoughts
2 concentration	3 forgotten	1 marvelous	4 remembering	8 thoughtful
1 connection	1 forty	1 me	18 remembrance	3 thoughtfulness
1 conscience	1 friends	1 memorandum	2 remind	1 thoughtlessness
2 consciousness	2 gone	1 memorizing	1 reminder	1 time
1 dancing	68 good	4 mental	2 reminiscence	1 train
1 death	1 gravestone	183 mind	1 reminiscences	1 training
1 debts	1 great	1 mindful	1 reproductive	1 tree
2 defect	2 green	2 mnemonics	1 result	1 unconsciousness
1 defective	1 happiness	1 mother	1 retain	3 understand
1 desirable	1 happy	1 mud	2 retaining	6 understanding
1 deterioration	9 head	1 my	5 retention	1 unstable
1 dictionary	1 bearing	1 myself	3 retentive	2 useful
1 dim	2 history	1 names	1 retrospect	2 verses
1 distant	2 home	3 necessary	1 sadness	1 weak
1 dream	1 hopefulness	1 necessity	1 scenes	1 well
3 dreams	1 idea	1 needful	1 scholar	1 will
1 dull	1 image	1 noble	6 school	1 wit
1 easy	2 imagination	1 none	1 sensation	1 wonderful
1 educated	1 impossible	1 oblivion	5 sense	2 work
1 effort	1 increase	1 painful	2 senses	2 youth
1 elusive	7 intellect	8 past	7 short	

62. SHEEP

—225 animal	1 eat	1 group	5 meat	1 rocks
18 animals	4 farm	1 hair	1 meekness	1 run
1 astray	1 feed	1 harmless	3 mountain	1 running
1 awkward	12 field	4 herd	60 mutton	
1 baa	6 fields	1 herder	1 nature	1 shear
3 beast	3 fleece	1 hill	1 park	1 shearing
1 bed	1 flesh	2 hillside	1 oxen	1 shears
1 Bethlehem	24 flock	1 horn	27 pasture	15 shepherd
5 black	1 flocks	1 horse	3 pastures	1 simple
1 blind	4 fold	1 humanity	1 peace	1 sleep
1 buffalo	1 follow	5 innocence	1 peaceful	2 small
1 calf	2 food	2 innocent	1 pet	1 soft
1 calm	1 foolish	1 jump	1 picture	1 spring
47 cattle	1 fowl	2 large	2 pig	2 stock
1 cloth	1 fur	1 landscape	1 plains	1 stupidity
3 country	1 gentle	151 lamb	1 play	1 tick
22 cow	1 gentleness	36 lambs	4 pretty	1 trust
5 cows	1 goad	1 large	4 pretty	1 wander
1 death	17 goat	1 lecture	2 quadruped	18 white
2 deer	10 goats	1 lowing	1 raising	2 wolf
2 dirty	2 good	1 many	1 ram	148 wool
6 dog	4 grass	3 meadows		10 woolly
2 dogs	1 graze			
	5 grazing			

63. BATH

1 baby	1 dry	2 invigorating	2 pleasure	1 springs
1 basin	1 English	1 joy	2 plenty	10 swim
2 bathe	1 every	1 large	3 plunge	5 swimming
6 bathing		1 luxury	1 porcelain	
1 beneficial		1 man		1 take
1 boat	1 filth	1 massage	1 refreshed	1 taken
1 boy	1 filthiness	2 morning	6 refreshing	2 toilet
120 clean	1 flowers		1 refreshment	6 towel
1 cleaning	1 fluid		2 river	2 towels
109 cleanliness	2 fresh		3 robe	71 tub
2 cleanly			6 room	
9 cleanliness	7 good	1 nakedness		1 vapor
6 cleanse		1 neatness	1 salt	1 vessel
8 cleansing		5 necessary	1 sanitary	
14 cold	9 health	2 nice	1 scrub	1 want
3 comfort	1 healthful	1 none	1 sensation	3 warm
3 cool	4 healthy	6 ocean	3 shower	102 wash
1 Creal Springs	10 hot	1 often	13 soap	— 839 water
	4 house	1 once	1 soothing	5 wet
1 delight			1 sponge	1 wood
4 dirt	1 invigorates	3 pleasant	4 spray	
5 dirty				2 yesterday

64. COTTAGE

2 abode	2 door	1 ivy	1 patients	1 simplicity
1 agreeable	23 dwelling	5 lake	1 peace	1 sleep
1 alone		1 lane	1 people	30 small
1 apartments	2 family	1 large	1 picturesque	1 snug
	1 far	4 lawn	1 place	1 stands
2 barn	4 farm	4 little	1 pleasantness	3 structure
1 beach	1 fence	17 live	1 pleasure	9 summer
1 beautiful	6 field	5 living	1 pond	1 sweet
1 box	2 fine	1 log	4 porch	1 Switzerland
3 brick	4 flowers	1 lonesomeness	1 prettiness	
1 brook	2 frame	4 love	3 pretty	1 table
2 brown		2 low	1 pudding	4 tent
31 building	7 garden	1 lumber	1 reside	2 thatched
13 bungalow	3 green		4 residence	1 tower
			1 resident	1 trees
3 cabin	1 habitable	1 Maine	3 rest	3 two
1 camp	3 habitation	15 mansion	1 resort	1 unity
2 camping	1 hamlet		3 river	
1 Cape Cod	1 hammock	1 name	1 rod	2 vacation
2 castle	1 handsome	3 neat	1 roof	1 veranda
1 chair	5 happiness	1 Newburgh	1 roomy	1 villa
1 cheese	1 happy	4 nice	2 roses	3 village
3 city	3 hill		1 rustic	1 vine
15 comfort	85 home	2 one		3 vines
2 contentment	1 homelike	1 open		
1 cottage	1 homestead	1 orchard	1 school	3 white
36 country	1 hope	1 outing	10 sea	2 window
2 couple	1 hospital	1 painted	5 seashore	1 woman
2 cozy	461 house	2 palace	2 seaside	11 wood
1 cute	1 houses	2 parsonage	6 shelter	1 wooden
1 distant	1 innocence	1 patient	2 shingles	3 woods
			2 shore	1 yard

65. SWIFT

2 active	7 deer	1 hear	1 near	4 slowly
2 aeroplane	1 degree	1 high	1 Niagara Falls	16 smart
1 ahead	1 doctor	28 horse		1 smartness
1 antelope	2 dog	12 hurry	1 power	3 smooth
13 arrow		1 hurrying	117 quick	29 speed
11 automobile	8 eagle		18 quickly	1 speedily
1 autos	2 easy	1 Indian	5 quickness	1 speeding
	3 engine		1 quiet	7 speedy
6 ball		1 kite		1 spinchiled
1 beauty	— 222 fast		6 race	2 spry
1 better	1 fastness	1 launch	27 rapid	1 steam
1 bicycle	1 fear	1 lazy	2 rapidity	1 sting
16 bird	1 fish	2 light	2 rapidly	1 stone
1 birds	5 feet	4 lightning	1 real	8 stream
1 boat	6 flight	3 lively	1 riding	2 strong
1 brisk	3 fly	1 man	18 river	2 sure
1 brook	3 flying	1 Marathon	1 rivers	5 swallow
3 bullet	1 foot	1 Mercury	1 road	1 swallows
1 cat	1 girl	1 messenger	1 rocket	
1 channel	1 go	1 meteor	19 run	1 throw
1 child	1 going	1 more	20 running	2 tide
1 choice	1 good	1 morning	13 runner	1 time
1 clever	1 grand	2 motion	1 rushing	18 train
1 creek	1 Greek	1 motoring	1 sail	1 trains
7 current		2 movement	1 sharp	
1 curve	1 hard	1 moving	1 shot	1 walking
1 cutting	1 hare	1 muscles	1 sleigh	11 water
	1 haste		100 slow	8 wind
				1 work

66. BLUE

1 air	1 cold	1 good	1 necktie	1 skies
1 azure	— 256 color	2 grass	239 sky	
	2 colors	10 gray	12 ocean	1 soft
1 ball	2 coloring	54 green		1 somber
1 beautiful			3 paint	1 space
1 becoming	1 dainty	1 hat	1 pale	1 stripes
1 bell	24 dark	5 heaven	1 paper	1 suit
1 binding	5 deep	2 heavens	1 pencil	
5 bird	1 depth	1 heavenly	9 pink	2 tie
88 black	18 dreas	1 homesick	2 pleasant	1 tint
1 blood	1 dull	1 hopeful	1 pleasing	7 true
1 blossom		1 horizon	1 policeman	2 truth
1 blotter	1 ether	1 house	4 pretty	1 turquoise
1 bluebird	6 eyes	1 hue	1 purity	
2 bluing			2 purple	1 unhappy
1 blousey	1 fair	5 indigo		1 unrest
1 book	4 feeling	6 ink	54 red	
5 bright	1 fidelity		1 restful	1 velvet
8 brown	6 flag	1 lake	3 ribbon	2 violet
	8 flower	8 light	1 river	8 violets
1 cadet	1 forget-me-not	1 lily	1 room	2 washing
1 chemical		1 lonesome		8 water
1 clock	1 gentian		2 sad	47 white
7 cloth	1 globe	2 melancholy	1 sailor	2 wind
8 clothes	2 gloominess	1 Monday	7 sea	
1 clothing	2 gloomy		1 serge	2 Yale
1 cloud	1 glum	1 navy	2 shade	27 yellow

67. HUNGRY

1 aching	2 appetizing	4 beggar	1 candy	1 crackers
1 ambitious		1 biscuit	5 child	1 crave
1 angry	2 baby	5 boy	5 children	7 craving
2 animal	8 bad	28 bread	4 cold	1 cupboard
1 appeasing	1 bananas	8 breakfast	1 college	
57 appetite	1 bear	1 butcher	1 country	1 dark

1 desirable	4 fatigue	1 lion	1 perishing	2 steak
11 desire	1 fatigued	5 longing	2 person	13 stomach
1 devil	4 fed	4 lunch	2 picnic	1 suffering
1 devour	1 feel		2 pie	1 sufficiency
31 dinner	8 feeling	5 man	2 plenty	1 sufficient
1 disagreeable	1 fill	4 me	1 plow	2 supper
4 discomfort	4 filled	1 meal	6 poor	
1 displeasure	—136 food	3 meat	1 potatoes	1 table
1 dissatisfaction	1 form	1 milk	2 poverty	12 thirst
1 dissatisfied	1 fulfilment	2 miserable	1 present	61 thirsty
1 distress	9 full	1 misery		1 thought
14 dog	3 fruit		1 ravenous	1 tiger
1 dogs		1 nausea	1 repletion	12 tired
1 dry	1 gaunt	1 necessary		1 tiresome
126 eat	1 Gertrude	2 need	1 sad	3 tramp
64 eating	1 girl	1 needy	2 sandwiches	1 traveling
2 eatables	2 gnawing	1 never	3 satiated	
1 emotion	1 good	1 nice	2 satiety	1 uncomfortable
4 emptiness	1 grub	1 no	14 satisfied	1 unhappiness
13 empty		1 noon	2 satisfy	4 unhappy
2 exhausted	1 hardship	1 nothing	1 school	4 unpleasant
	1 Henrietta	1 nourish	1 sensation	3 unsatisfied
	1 hog	2 now	1 sharp	1 very
9 faint	1 horse		1 ship	1 viands
1 fainting	2 hunger	1 ocean	1 sick	1 victuals
5 famine		1 often	1 sleepy	
1 famish	3 I		1 slow	1 walk
11 famished	1 ice-cream	5 pain	2 sorrow	25 want
1 furnishing		1 painful	10 starvation	5 wanting
1 fascinating	1 kitchen	1 pallid	8 starve	5 weak
3 fast		1 pang	15 starved	3 weakness
5 fasting	2 lack	1 peaches	29 starving	2 wish
				10 wolf

68. PRIEST

3 altar	1 conscientious	2 heaven	12 nun	8 robes
1 authority	1 console	1 high		1 ruler
	1 counsellor	3 holiness	1 office	
1 belief	1 crucifix	15 holy	11 parson	2 sacred
3 Bible		2 honor	11 pastor	1 sacrifice
6 bishop	1 dignified	2 hood	1 people	1 sanctity
13 black	2 discipline	1 house	1 school	
1 blessing	1 discontent	1 humble	3 person	
1 book	1 dishonor	2 hypocrite	1 piety	1 sent
1 boy	1 dislike		4 pious	1 serious
1 brother	1 divine	1 inspired	3 Pope	3 sermon
	1 divinity	1 instruction	1 power	1 seremony
1 cassock	5 doctor		1 praise	2 servant
2 cathedral	1 doing	2 Jew	3 pray	2 service
36 Catholic	1 dominie	1 just	1 prays	1 services
2 Catholics	1 dress	1 justice	8 prayer	2 shaven
4 Catholicism	1 Dr. K.		1 prayers	1 shoot
1 ceremony	1 duty	1 kind	3 preach	1 sinner
1 chancel		1 knowledge	2 preaches	1 sister
2 chapel	1 exalted		35 preacher	1 slim
1 childhood		2 layman	2 prelate	1 solemnity
166 church	2 faithful	4 leader	2 priestess	1 sometimes
1 clean	2 fakir	1 lecture	1 profession	1 spookism
30 clergy	1 fakirs	1 Levi	3 prophet	1 stern
62 clergyman	3 fat	2 Levite	1 pulpit	1 student
1 cleric	15 father	1 Lord	2 purity	2 Sunday
2 clerical	1 follower		2 rabbi	3 surprise
1 cloister	1 forgive	5 male	57 religion	1 table
1 cloth	1 forgiveness	75 man	7 religious	2 teacher
1 clothes		5 mass	1 representative	
1 collar	2 garb	—178 minister	1 repulsive	1 ugly
1 comforter	1 gentleman	5 monastery	1 reserved	
1 command	2 God	9 monk	1 reverend	1 vest
1 communion	9 good	1 moral	2 righteous	1 vicar
5 confession	1 goodness		1 road	
2 confessor	6 gown	1 noble	12 robe	1 York

69. OCEAN

1 afraid	1 crossing	1 Hudson	12 rough	2 swim
1 angry	1 current	1 immense	2 sail	1 swimming
11 Atlantic	1 dark	2 immensity	2 sailing	1 tide
1 barge	87 deep	2 infinity	10 salt	1 terrible
3 bathing	1 deepness	2 joy	2 sand	1 traveling
3 bay	10 depth	12 lake	1 Sandy Hook	1 trip
5 beach	1 depths	8 land	75 sea	
1 beautiful	2 distance	9 large	3 seas	1 valley
5 big		1 launch	2 seashore	7 vast
1 bigness	1 enormous	1 liquid	1 seething	9 vastness
1 billows	1 Europe	1 Maine	1 shining	2 vessel
25 blue	2 expanse	1 Mauretania	24 ship	1 voyage
6 boat	1 expansive	1 might	11 ships	
1 boats		3 mighty	2 shore	1 waste
2 body	1 float	2 motion	1 sky	— 427 water
1 boisterous	2 foam	1 power	1 sound	1 waters
3 breadth		1 pretty	1 storm	12 wave
1 breeze	2 grand	1 quantity	1 storms	45 waves
3 broad	2 grandeur	1 quantity	1 steamboat	1 wavy
1 Byron	3 great	1 quantity	14 steamer	2 wet
1 Cape Cod	1 greatness	1 quantity	1 steamers	1 white
2 Coney Island	2 green	36 river	1 steamship	15 wide
1 country	2 Grove	1 gulfs	4 stream	1 wonder
			1 roars	1 swiftness

70. HEAD

1 above	1 combs	3 good	14 man	4 scalp
9 ache	1 consciousness	1 govern	1 man's	3 sense
1 aches	1 cover	1 great	1 masterpiece	1 senses
8 anatomy	1 covered	— 159 hair	1 medium	1 sensible
2 animal	2 cow	11 hand	7 member	4 shape
1 appearance	11 cranium	2 hands	3 memory	1 shaped
2 arm	1 crown	1 handsome	1 mentality	1 shoulder
3 arms		2 hard	14 mind	12 shoulders
1 asymmetrical	1 director	17 hat	1 mouth	5 skull
	1 donkey	1 headless		7 small
1 baby's		8 heart	1 nail	2 sore
2 back	1 ear	2 heels	1 nation	1 square
1 bald	1 ears	3 high	17 neck	2 statue
1 ball	1 emptiness	2 highest	2 nose	2 stomach
1 beautiful	1 empty	2 hot	5 organ	1 strong
1 beginning	1 encephalon	1 house		2 superintendent
5 big	1 end	4 human		1 symmetry
1 black	1 extremity	1 pain		
148 body	2 eye	6 part		
1 bonehead	10 eyes	1 individual		
1 boss		2 intellect	1 people	3 tail
58 brain	13 face	3 intelligence	15 person	1 teeth
32 brains	1 father	1 king	2 physiology	2 thick
1 branch	1 feature	1 knee	1 planning	6 thinking
1 bright	2 features	17 knowledge	1 Pope	16 thought
1 brown	26 feet	19 large	3 power	4 thoughts
	1 figure	1 leadership	2 president	1 tired
7 cabbage	1 firm	1 leading	1 pretty	31 top
3 captain	2 first	1 life	2 principal	2 trunk
1 cattle	1 food	2 light	1 quarters	2 useful
2 cavity	64 foot	3 limb		
2 chest	1 forehead	1 limbs		
2 chief	1 front	1 little	2 rest	1 whirl
1 chop		1 long	21 round	1 wit
1 clear	1 girl	1 louse	1 roundness	1 woman
2 comb	1 glasses		3 ruler	2 woman's

71. STOVE

3 article	1 dinner	213 heat	4 lid	1 round
1 bake	1 dirt	1 heating	3 lifter	1 rusty
1 baking	1 dishes	1 heats	1 light	
59 black	217 fire	2 heavy	1 long	1 shovel
4 blacking	3 fireplace	1 home	2 metal	1 sink
1 box	1 flame	86 hot		2 small
1 breakfast	3 food	2 house	1 oil	1 smoke
2 bright	1 Franklin	1 household	1 oven	3 steel
12 burn	1 fry			1 structure
2 burning	1 fuel	1 icebox	1 painful	1 teakettle
	6 furnace	1 implement	18 pipe	
1 chair	8 furniture	2 instrument	1 pipes	1 using
1 chimney	1 furnitureness	51 iron	5 poker	2 utensil
25 coal		1 glass	10 polish	
2 comfort	7 gas			32 warm
24 cook	1 German	4 kettle	2 radiator	42 warmth
34 cooking	2 good	11 kitchen	10 range	1 water
1 cooks	1 grate		1 receptacle	2 winter
3 cover		3 lamp	1 red	7 wood
	2 hard	2 large	2 room	
1 dark	1 hardware	2 legs		1 zinc

72. LONG

1 age	1 elongated	7 large	1 reed	1 stupid
1 anxiety	1 endless	1 lasting	3 ribbon	1 summer
1 arm	1 enough	1 lecture	1 ride	
1 arms	2 eternity	1 legs	15 river	
2 avenue	1 extended	50 length	32 road	3 table
1 away	1 extension	6 lengthy	1 rod	1 test
	1 extensive	1 level	1 room	2 thin
1 barn	1 extent	4 life	7 rope	2 thread
1 beach		5 line	1 row	1 throw
1 bench	8 far	1 linear	1 rug	15 time
1 big	1 feet	1 live	2 rule	1 tiresome
1 blackboard	1 fellow	1 Lusitania	4 ruler	1 tower
2 board	2 fence			3 track
6 boat	1 flagpole	5 man	1 shape	2 train
1 book	1 foot	7 measure	1 sharp	4 tree
1 boulevard	1 for	2 medium	1 shore	1 trip
1 bridge		1 meter	418 short	
2 broad	2 giant	13 mile	1 shovel	1 vast
1 Brooklyn	1 girl	1 miles	1 slender	1 very
Bridge	2 glass	1 Mississippi	1 slim	
1 broomstick	4 grass	1 much	1 slow	
1 building	1 great		1 small	1 wait
		1 name	2 snake	2 waiting
1 cable	2 hair	15 narrow	1 something	7 walk
1 chimney	2 hall	2 night	1 space	1 walking
1 coat	1 head	1 nose	1 spacious	1 walls
1 courage	1 height		1 spire	6 way
1 craving	5 high	1 oblong	1 square	1 ways
	1 hill		1 stay	1 weary
9 day	1 hose	2 path	1 steamer	1 while
1 days	1 hours	1 person	1 steeple	7 wide
1 deep	1 house	1 pin	8 stick	1 winter
1 depth		1 pipe	1 sticks	1 wire
1 desirable	2 Island	1 plant	2 story	1 wishing
1 dimensions		1 plenty	1 straight	1 without
81 distance	8 journey	20 pole	6 street	1 worm
3 distant			1 streets	
6 dress	1 labor	4 railroad	1 strength	4 yard
1 duration	3 lane	1 railway	2 stretch	2 year
	2 lanky	1 rails	6 string	

73. RELIGION

1 Abraham	2 different	1 honor	1 obey	2 science
1 aesthetics	1 difficult	1 house	3 opinion	1 scripture
1 aim	1 dislike	1 hypocrisy	1 order	3 sect.
1 all	1 divine		1 orthodox	2 sectarian
1 anything	4 doctrine	2 idea		1 self
1 association	1 dogma	1 ideas	1 paganism	3 service
2 atheism	2 doubt	1 ignorance	3 peace	1 sheeney
4 atheist	1 Druids	1 indefinite	3 people	1 society
	1 duties	1 indiscreet	1 perfect	1 solace
2 Baptist	2 duty	1 institutions	1 persecution	1 somewhat
1 beauty		1 irreligion	2 person	1 soul
39 belief	1 emotion	1 irreligious	3 persuasion	1 spirituality
1 beliefs	4 Episcopal	3 Jesus	13 piety	1 stability
2 believe	1 Episcopalian	3 Jew	13 pious	1 standby
1 believing	1 eternity	1 Jews	2 poor	1 study
1 believer	2 ethics	4 Jewish	1 Pope	1 superstition
1 belong	1 everyday	1 just	1 powerful	
1 belonging			2 practice	1 tabernacle
52 Bible	1 fair		2 pray	1 table
1 body	47 faith	2 kind	2 praying	1 teaching
2 books	1 fake	1 knowledge	21 prayer	1 temperament
3 brain	2 fanatic	1 law	5 prayers	2 temple
1 Buddha	1 fanaticism	1 learning	2 prayer-book	
	1 feeling	4 life	2 preacher	2 think
1 catechism	1 fine	1 living	2 preaching	12 thought
56 Catholic	2 foolish	1 Lord	3 Presbyterian	1 thoughtful
2 ceremony	1 free	1 Lutheran	28 priest	1 training
1 China			3 profession	1 true
8 Christ	1 gentile		1 professor	1 trust
14 Christian	1 German	1 man	30 Protestant	6 truth
7 Christianity	31 God	1 men	1 pulpit	
1 Christlike	1 godly	1 mankind	2 pure	1 uncertain
— 161 church	46 good	1 many	1 puzzle	1 uncertainty
4 churches	10 goodness	1 mental		1 unknowable
1 churchman	2 gospel	1 Methodist	1 question	1 virtuous
1 civilize	1 government	7 Methodist		1 vow
1 clergymen	3 guide	15 minister	1 race	
4 comfort			1 rector	
1 commandments	3 happiness	2 Mohammed	2 religious	1 want
1 conduct	1 harmony	2 morals	3 reverence	1 wickedness
1 Congregational	1 health	1 mystic	2 right	1 wide
2 conscience	3 heathen		2 righteousness	1 woman
1 conversion	8 heaven	2 nationality		1 wonder
2 Creator	1 Hebrew	1 need	1 sacrament	1 wonderful
33 creed	2 helpful	1 no	4 sacred	1 work
1 custom	1 hereafter	5 none	1 sacredness	14 worship
	1 heresy	2 nothing	1 saintly	1 worshipping
1 deep	2 history	1 nun	1 saints	
11 denomination	4 holiness	1 nuns	2 salvation	1 Yankee
4 devotion	10 holy		1 scholastic	

74. WHISKEY

1 abomination	24 brandy	1 deviltry	2 evil	2 hot
50 alcohol	1 breath	1 Dewar's		1 hotels
1 ale	1 burn	1 disagreeable	1 fast	1 Hunter
1 amber	4 burning	1 discontent	4 fire	
1 appetizer		1 disgust	1 flask	1 indulge
1 apple	1 Carrie Nation	1 distillery	4 fluid	1 indulgence
1 awful	3 cider	1 distress	1 food	1 inebriety
	1 closet	1 dope	1 full	1 insanity
85 bad	1 color	1 dreadful		5 intemperance
1 barley	1 corn	~232 drink	8 gin	13 intoxicant
2 barrel	4 curse	1 drinks	3 glass	2 intoxicants
1 bed		17 drinking	15 good	3 intoxicated
46 beer	1 dangerous	1 drinkable	1 grain	14 intoxicating
9 beverage	1 dark	1 drug		
1 biting	1 death	31 drunk	1 hard	1 jag
5 bitter	1 degradation	18 drunkard	1 headache	
10 booze	1 despised	3 drunks	1 Hennessy's	
1 Boston	1 destruction	26 drunkenness	1 hops	1 Kentucky
29 bottle	1 devil		1 horror	1 knock

A STUDY OF ASSOCIATION IN INSANITY

1 law	1 odor	1 ruin	5 spirit	1 terrible
12 liquid	1 old	1 ruination	23 spirits	1 thirst
1 liquids		23 rum	38 stimulant	1 thirsty
70 liquor	1 pint	9 rye	4 stimulants	1 tipsy
	1 place		1 stimulating	1 toddy
2 malt	1 pleasant	15 saloon	1 stimulation	1 toper
2 man	4 poison	1 saloons	1 stomach	2 trouble
4 medicine	1 poor	1 Scotch	2 straight	
1 misery	1 poorhouse	1 seasickness	6 strong	1 unhealthy
1 money	1 powerful	2 sick	1 stupidity	1 unpleasantness
1 moonshine	2 prohibition	2 sickness	1 suffering	
	1 punch	2 smell		1 warm
3 narcotic		1 smuggle	1 taste	9 water
2 nice	1 rarely	1 sorrow	4 temperance	16 wine
1 none	2 red	4 sour	1 temptation	1 wrong

75. CHILD

5 adult	1 darling	1 hair	8 love	1 precocious
3 angel	2 daughter	2 happiness	2 loving	10 pretty
	1 dear	2 happy	4 lovely	1 pupil
7 babe	1 dearest	1 healthy		1 pure
—193 baby	1 delight	1 helpless	1 male	1 purity
1 bad	1 disobedient	1 helplessness	1 mammal	
8 beautiful	1 dog	6 home	41 man	1 rattle
5 beauty	4 doll	2 hood	1 maternity	1 religious
8 being	4 dress	1 hospital	1 me	
2 birth	1 dresses	5 human	1 mite	5 school
2 blessing		1 humanity	55 mother	1 screaming
2 body	1 Eleanor		1 motherhood	1 senses
1 born	1 Elizabeth	1 ill		1 simple
64 boy	1 embryonic	1 immature	1 naive	1 simplicity
3 boys	1 expectation	1 infancy	1 naughty	1 sister
1 burden	122 infant		1 necessary	52 small
	2 family	1 injury	1 nephew	1 smile
1 care	1 fat	16 innocence	1 nice	2 son
1 carriage	5 father	11 innocent	1 night-dress	1 spoiled
1 charm	3 female	1 instinct	1 noise	1 study
1 childhood	1 frolicsome	2 interesting	2 nuisance	6 sweet
1 childish	2 fun			2 sweatness
1 Christ	1 fussy	1 joy	1 obedient	
1 clothes	1 future	2 juvenile	6 offspring	1 table
3 comfort	45 girl	4 kid		1 tender
1 coming	2 girls	1 kindergarten	6 parent	1 three
1 companion	1 glass		1 parents	1 toys
2 cradle	7 good	2 labor	3 people	1 trouble
1 creep	1 goose	2 lady	18 person	3 weak
1 crib	1 Greta	2 large	1 pet	18 woman
1 cries	1 growing	1 like	14 play	
4 cry	1 growth	11 little	3 playing	30 young
1 cross		1 lonely	3 playful	2 youngster
1 cunning	1 habits	1 lovable	4 pleasure	29 youth
3 cute			1 plump	1 youthful

76. BITTER

8 acid	5 beer	1 disappointment	1 grudge	1 limes
1 acrid	1 berry	2 dislike	2 hatred	1 liquor
1 agreeable	1 biting	10 distasteful	2 herb	1 love
1 ale	1 boneset	1 dregs	5 herbs	1 magen
4 almond	1 burdock	2 drink	1 hops	1 man
3 almonds			3 horrid	1 mandrake
4 aloe	1 candy	2 enemy	1 horseradish	37 medicine
6 aloes	1 cascar		1 icy	1 Mirabar
1 altogether	1 chastisement	1 feelings	1 ill	1 morphine
2 alum	1 chickory	1 flag	1 irritating	3 nasty
3 anzer	1 chocolate	4 fruit		1 nice
3 apple	1 cider			1 none
1 apples	6 cold	42 gall		1 nux
	1 cross	2 good	8 lemon	1 olives
1 apricot		1 grape	1 lemons	1 orange
1 astringent	1 cup	3 grapefruit	1 lemonade	
10 bad	1 deep	1 grass	1 lessons	
1 banana	10 disagreeable	2 grief	1 life	

1 peach	1 quince	1 spice	1 tears	1 unpleasantness
1 peel	23 quinine	3 strong	1 temper	1 unsweetened
9 pepper		1 strychnia	3 thoroughwort	1 unwholesome
2 persimmon	1 rank	4 strychnine	1 thought	
3 pickle		1 suffering	1 tonic	1 vegetables
1 pickles	1 sadness	305 sweet	2 tonics	17 vinegar
1 pleasant	2 salt	1 sweater	1 trouble	
4 plums	2 salts		1 turnip	1 water
1 poison	3 sharp	8 tart		1 weather
3 pucker	8 sorrow	66 taste	3 ugly	1 wine
1 puckering	1 sound	3 tasteless	1 unhealthy	1 word
	- 222 sour	1 tasting	1 unpalatable	2 words
1 quassia	2 sourness	1 tea	19 unpleasant	2 wormwood
				1 wrong

77. HAMMER

2 action	5 driving	1 knife	1 plumber	4 striking
1 annoyance	1 door	35 knock	51 pound	1 stroke
6 anvil		6 knocker	12 pounding	
1 article	1 easy	5 knocking	1 pounds	3 tack
1 awl	1 effort			11 tacks
11 axe	3 finger	2 large	1 rap	1 Thor
3 hang	2 force	1 lost	1 repairs	1 thread
1 beating		3 mallet	1 revolver	6 throw
2 blacksmith	1 geology	1 mark	1 road	1 throwing
6 blow		1 maul	1 rod	1 thumb
2 board	5 handle	1 metal	1 round	1 thump
1 bruiser	53 hard		9 saw	1 toe
2 building	6 hatchet	-185 nail	1 scissors	29 tongs
	2 head	98 nails	1 shoemaker	69 tool
13 carpenter	18 heavy	2 nailing	1 shop	3 tools
1 carpentering	21 hit	36 noise	10 sledge	1 turf
10 chisel	1 horseshoe	1 nut	2 small	
1 claps	1 hurt	1 nuts	9 sound	1 use
1 claw	1 hurts	2 one	1 spade	5 useful
2 club			1 stay	1 utensil
1 concussion	8 implement	1 pain	20 steel	3 weapon
1 convenience	38 instrument	2 picture	1 stone	3 weight
17 drive	45 iron	1 pictures	1 strength	6 wood
1 drives	2 J.		23 strike	8 work
				2 working

78. THIRSTY

1 all	1 desiring	1 glass	1 nauseated	1 suffering
2 always	1 dipper	1 good	1 oranges	1 terrible
1 animal	1 disagreeable	1 hard		1 throat
3 appetite	2 discomfort	1 haste	2 pain	1 tongue
	2 dog	1 heat	3 parched	
1 bar	206 drink	1 horse	2 parching	1 uncomfortable
4 beer	23 drinking	2 hot	1 person	2 unpleasant
1 beverage	8 drought	9 hunger		
1 bird	218 dry	41 hungry	12 quench	1 very
1 boy	5 dryness		4 quenched	1 vichy
1 brooks		1 labor		
1 cattle	1 emotion	2 lack		2 walk
2 child	empty	1 lawn	1 refreshing	9 want
1 cold	1 exhausted	7 lemonade		2 wanting
4 craving		1 liquid	1 satiated	1 warm
1 cream	1 famished	4 longing	3 satisfied	-841 water
2 cup	1 fatigue	1 man	1 sensation	1 wench
	5 feeling	2 mouth	2 soda	3 wet
2 desert	1 fluid		3 spring	2 work
4 desire	1 food		1 stream	
	1 fountain			

A STUDY OF ASSOCIATION IN INSANITY

79. CITY

1 Albany	1 Creal	3 house	1 mill	1 sights
1 beautiful	1 Creal Springs	52 houses	1 mountain	1 sin
9 big	11 crowd	1 immense	1 municipal	1 size
5 Boston	7 crowded	1 incorporated	1 municipality	1 slums
1 bridges	1 crowds	1 incorporation	1 nation	1 small
3 Brooklyn	1 density	2 industry	99 New York	1 smoke
6 building	1 dirt	1 inhabitant	12 noise	2 space
20 buildings	1 distance	12 inhabitants	6 noisy	1 Springfield
1 bulk		1 inhabited		26 state
1 Burlington	1 earth	1 park		1 stores
1 business	1 excitement	1 pavement		3 street
4 busy	1 fine	48 people		11 streets
2 bustle	1 fun	37 place		1 tale
6 capital	1 gaiety	63 large	1 pleasantness	1 ten thousand
3 cars	1 good	1 largeness	2 populated	2 theatre
1 charming	1 government	2 life	19 population	1 theatres
4 Chicago	1 governor	1 loathing	1 populous	2 towers
1 child	2 great	2 location	6 Poughkeepsie	—258 town
7 citizen	1 greatness	1 lots	2 republic	1 towns
1 civilization		1 machinery	2 residence	1 township
1 Cleveland		1 majority	1 resting	1 traffic
2 collection	3 habitation	1 Manhattan	1 rich	1 tumult
5 community	1 heat	2 manufacture	1 scene	2 turmoil
1 complexity	2 hill	3 many	1 sea	44 village
1 confusion	5 home	2 men	1 settlement	1 wagons
1 congregation	1 homes	6 metropolis	1 shopping	1 welcome
2 corporation	1 hot		1 shops	1 world
74 country				

80. SQUARE

1 accurate	1 crackers	3 green	1 measurements	2 sharp
1 acre	8 crooked	1 grounds	1 metal	1 side
1 across	1 crowd		2 mile	6 sides
1 active	9 cube	1 hand	1 monument	1 sidewalk
1 airy	1 cubic	2 handkerchief		1 size
11 angle	1 cubical	1 Harlem	1 New York	1 sizing
6 angles	1 curse	2 Herald		6 small
4 angular	1 curve	1 heavy	2 object	1 smooth
1 arithmetic	1 deal	3 honest	32 oblong	2 solid
1 association	1 dealing	1 honesty	1 obtuse	1 space
1 bed	1 decoration	5 house	1 open	2 stand
1 best	2 desk	3 houses	5 oval	1 steel
1 big	1 Dewey	2 inch		7 straight
71 block	4 dice	1 inches	5 paper	9 street
4 board	1 die	1 instrument	1 parallel	1 streets
4 book	2 door	1 iron	1 parallelogram	1 sugar
36 box	1 Düsseldorf	1 just	1 park	1 surface
2 brick		2 justice	1 pavements	1 surveyor
5 broad	1 earth	1 junction		
2 building	1 ease	1 kindergarten	2 people	
1 business	6 equal	1 knob	2 perfect	47 table
	19 even	2 land	1 picture	1 thoroughfare
9 carpenter	1 evenness	5 large	2 pillow	3 Times
1 carpet	1 exact	1 Lawrence	4 place	13 tool
1 cars	3 fair	2 length	1 plane	1 tree
2 center	4 field	10 level	1 plot	4 trees
1 Chatham	4 figure	2 lines	1 proportion	11 triangle
1 checkers	1 file	1 little	2 public	1 true
22 circle	4 flat	18 long	1 quadrangle	1 uneven
1 circular	1 flat	1 lot	15 rectangle	1 uniform
4 city	1 floor	1 masonry	3 rectangular	4 Union
1 Common	2 foot	1 marks	1 rhomboid	2 upright
1 Commons	1 form	1 meal	5 right	8 village
5 compass	10 four	12 Madison	1 Rittenhouse	
1 concert	1 frame	5 man	1 road	
1 Copley	1 furlong	1 mark	5 room	
7 corner			—250 round	
18 corners	5 garden	1 marks	9 rule	
2 cornered	10 geometry	1 masonry	3 ruler	
1 correct	1 Getty	2 mathematics		
1 correctness	1 goods	1 meal	1 saddle	
1 cover	1 grass	5 measure	1 seat	
		2 measurement	6 shape	

81. BUTTER

2 bad	5 dish	2 goat	101 milk	1 smooth
2 bill	1 dripping	14 good	1 molasses	65 soft
2 biscuit	34 eat	76 greasy	1 mush	2 softness
206 bread	12 eatable	1 grocer	1 nourishment	1 sour
1 breakfast	2 eatables	2 nut	1 spoon	3 spread
1 butter	6 eating	1 healthful	1 square	1 supper
1 butterine	1 edible	3 jam	9 oil	2 strong
41 cheese	2 egg	1 indifference	8 oily	1 substance
4 churn	11 eggs	1 ingredients	5 oleomargarine	4 sugar
1 color	1 emollient	2 jelly	1 peaches	1 sweet
1 composition	1 excellent	1 kerosene	3 plate	12 sweet
1 cooking	1 farm	7 knife	1 pleasant	2 table
1 cottolene	1 farmer	15 lard	1 plenty	1 tallow
1 country	21 fat	1 luxury	1 pound	2 taste
1 cup	1 fatty	2 rancid	1 pure	2 tea
29 cow	1 fish	7 fly	1 thin	1 tub
11 cows	1 flour	63 food	1 use	1 vegetable
34 cream	7 fly	1 meal	13 salt	1 salve
4 dairy	3 fresh	2 meat	8 salty	2 smear
1 dairying	1 fudge	1 melt	1 smear	80 yellow
2 diet		2 melting		
2 dinner				

82. DOCTOR

1 administer	5 disease	5 ill	1 murder	1 quack
3 aid	1 diseases	21 illness	1 N.	6 relief
1 ailment	1 Divinity	2 inquisitive	1 N.	1 relieved
1 apparatus	1 doctress	2 intelligent	2 necessity	1 remedy
2 attendant	1 dog	1 interne	1 need	
	1 driving	1 invalid	1 needed	1 S.
1 bad	1 Dr. P.	1 K.	1 needful	3 satchel
1 bag	2 druggist	1 K.	1 nice	2 science
2 heard		1 killer	41 nurse	1 scientist
2 better	2 education	1 kind	1 nurses	52 sick
8 bill		86 lawyer	1 operation	104 sickness
2 bills	2 fakir	1 labor	1 O.	3 smart
1 bottle	3 false	1 laboratory	1 office	1 student
1 brains	2 father	1 laborer	1 old	1 suffering
1 brother	3 friend	1 lamp	1 one	1 supervisor
1 butcher		1 learned	1 operation	5 surgeon
1 C.	1 G.	1 life	1 P.	1 surgical
1 C.	1 gentleman	1 M.	2 pain	1 syringe
2 care	17 good	1 McC.	1 papa	
2 carriage	1 goodness	2 grip	28 patient	1 tend
1 case	1 great		1 patients	1 treatment
1 chief	1 healer	1 magistrate	1 people	3 trouble
1 clergyman	5 healer	1 male	3 person	1 trust
1 clever	2 healing	68 man	1 pharmacist	2 useful
1 college	18 health	1 mean	1 physical	1 useless
1 convenient	3 help	10 medical	— 213 physician	
9 cure	1 helper	149 medicine	1 pills	1 W.
1 D.	1 helpful	1 medicines	2 practitioner	1 W.
1 D.	1 helpfulness	1 merchant	6 priest	1 W.
1 D.	1 home	7 minister	9 profession	1 well
1 death	8 hospital	1 mister	3 professional	1 wise
6 dentist		1 money		2 woman
				1 work

S3. LOUD

3 angry	3 disagreeable	2 laugh	1 power	2 sounds
1 audible	1 discontent	2 laughing	3 speak	3 speak
	1 dislike	2 laughter	2 speech	2 spoken
1 band	3 drum	1 lofty	1 quietness	7 still
1 bawl		3 long		1 stone
5 bell	3 ear	57 low	1 racket	8 strong
2 bells	12 easy		1 real	1 subway
2 birds	4 explosion	1 man	1 report	1 sweet
88 boisterous		1 masculine	2 rough	
1 boy	3 fast	1 megaphone	2 rude	
2 boys	1 forte	1 mellow		12 talk
1 bright		1 mild	1 S.	1 talking
	1 game	1 mouth	9 scream	9 talker
2 call	1 gong	7 music	2 sharp	9 thunder
1 called	1 graphophone		1 shock	1 tie
1 calliope	2 gun	→205 noise	6 shout	1 tone
1 calm	1 guns	112 noisy	1 shouting	1 trolley
12 cannon			1 shriek	
1 check	2 hammer	1 objectionable	9 shrill	1 uncomfortable
1 child	2 hard	1 ocean	1 shrinking	5 unpleasant
1 children	3 harsh	1 organ	3 silent	
1 city	1 haughty	1 owl	1 sing	27 voice
1 clear	6 heat		1 singer	1 voices
2 course	1 heard	1 pain	1 singing	4 vulgar
2 color	4 heavy	1 painful	4 slow	
1 common	14 high	1 people	1 smart	2 whisper
1 confusion	1 hog	2 person	1 smooth	17 whistle
1 cornet	16 holler	1 phonograph	1 socks	1 wide
	4 horn	2 piano	165 soft	3 wind
1 deaf	1 impatient	1 piercing	1 softly	
1 deafening		1 pistol	2 song	3 yell
1 din	2 knock	1 pistols	25 sound	2 yelling

S4. THIEF

1 absence	1 dishonor	1 laugh	1 pocketbook	→212 steal
1 abstractor	1 dislike	4 law	8 police	69 stealing
1 anger	1 distrustful	1 lawyer	12 policeman	8 steals
1 arrest	1 dirt	6 liar	1 poor	9 stole
	1 dog	1 lock	6 prison	9 stolen
14 bad	1 dumb	3 loss	1 prisons	2 stealer
1 badness		2 low	1 prisoner	1 stealth
1 bandit	1 enemy	29 man	2 punishment	2 stealthy
1 bank	1 evil	1 mask	1 purse	
3 beggar		1 McClure's	1 ran	5 take
1 being	2 fear	4 mean	4 rascal	3 taking
1 betrayer	1 felon	1 meanness	1 reverses	1 time
3 boy		1 mercenary	1 revolver	2 tools
118 burglar.	1 girl	1 men	8 rob	1 tramp
2 burglary	1 glove	1 minister	126 robber	1 treasure
2 careful	2 gold	1 mischievous	10 robbery	1 troublesome
2 catch	1 good	1 miserly	19 rogue	1 trust
4 caught	1 harsh	1 misdemeanor	1 roguish	3 ugly
1 caution	18 honest	1 mistake	1 run	1 undesirable
1 chief	4 honesty	16 money	2 running	1 unjust
1 clerk	4 house	5 murder		1 unreliable
1 clothing	1 household	3 murderer	1 scare	
4 court			1 schemer	1 vagrant
2 crime	1 ignorant	1 necessity	1 school	2 valuables
15 criminal	1 injustice	1 neighbor	4 scoundrel	2 vice
3 crook	1 interest	1 newspaper	1 shot	5 villain
1 cry	1 Irish	16 night	4 silver	1 virtue
2 culprit		1 none	1 silverware	
1 cute	11 jail	1 noted	1 sin	1 want
	7 jewelry		1 Sing Sing	3 watch
2 dangerous	3 jewels	1 object	1 sinner	1 waywardness
4 dark			1 sly	4 wicked
1 deceit	1 judge	1 pencil	1 snake	8 wickedness
1 detective	1 jury	1 person	7 sneak	1 window
1 devil	2 justice	2 pickpocket	3 sneaking	1 woman
11 dishonest	1 killed	1 play	1 sneaky	1 wretched
2 dishonesty	1 kleptomaniac	1 pocket	1 spoils	3 wrong

S5. LION

4 Africa	5 cub	1 hearted	27 mouse	1 story
1 Androcles	2 cubs	1 holler	1 mule	30 strength
1 anger		1 horse		15 strong
2 angry	5 danger	1 howl	1 N.	1 Sultan
326 animal	6 dangerous	1 huge	1 noble	
3 animals	1 death	1 hungry	1 noise	4 tame
	13 den	3 hunter		1 tamer
17 bear	3 desert	4 hunting	1 panther	1 tail
67 beast	1 devours	1 hyena	2 park	1 teeth
1 beautiful	1 disturber		1 paw	1 terrible
1 beauty	1 dog	1 interested	1 picture	102 tiger
2 big			5 power	2 tigers
1 bird	1 eat	1 jealous	1 powerful	
1 bite	1 eats	5 jungle	1 prey	7 ugly
1 blood	3 elephant	1 jungles		
1 boisterous	1 enraged		1 rage	5 vicious
2 bold		16 king	1 raging	
1 Bostock's	3 fear		1 revenge	1 walks
4 brave	16 ferocious	1 L.	46 roar	2 wicked
1 bravery	1 ferocity	6 lamb	3 roars	12 wild
1 Bronx	36 fierce	3 large	6 roaring	1 wilderness
		10 lioness	8 Roosevelt	2 wilderness
14 cage	6 forest	1 lionized	1 rough	1 wilds
1 camel	1 fox	1 lookout		10 wolf
6 cat	1 fright	1 majestic	1 savage	2 woods
1 cave	1 frightened	3 majesty	1 sea	1 wool
1 Christian		18 mane	1 shaggy	1 wrath
2 circus	1 giraffe	5 menagerie	1 sharp	
2 claws	2 great	1 mice	1 sheep	1 yellow
1 cow	1 growl	1 mighty	1 small	
1 crouching		1 monkey	1 stealth	5 zoo
2 cruel	3 hair		1 stealthy	1 zoology

S6. JOY

1 action	2 delighted	7 great	1 merriment	1 sensation
1 amuse	2 delightful	18 grief	1 merry	1 shouting
3 amusement	1 despair	— 1 hands	7 mirth	2 show
1 anger		215 happiness	1 motherhood	1 sing
1 angry	1 ecstasy	71 happy	2 much	2 smile
1 anticipation	3 elated	1 harmony	5 music	1 smiling
1 arrival	1 emotion	1 health		3 song
4 automobile	1 engaged	1 heard	1 news	135 sorrow
	2 enjoyment	3 heart	2 nice	1 sorry
1 ball	3 excitement	2 heaven	1 noise	1 state
1 bird	2 expression	1 holiday		1 suffering
1 birth	1 extreme	6 home	1 outing	1 summer
1 birthday	1 exuberance	4 hope		1 sunlight
1 bitterness		1 fair	1 pain	6 surprise
1 bless		1 family	1 passing	4 sweet
1 blessing		1 inexpressible	23 peace	1 sweetness
10 bliss	1 feel	1 joking	1 picnic	
1 boy	5 feeling	1 jubilant	1 picnics	2 time
1 bright	1 felt	15 laughter	8 pleasant	1 triumph
1 brightness	1 festivity	1 leap	3 pleased	3 trouble
1 buoyant	2 fine	1 lady	121 pleasure	
	1 food	7 laugh	1 pride	1 unalloyed
1 cheer	1 forever	4 laughing		1 unattainable
2 cheerful	1 friends	15 laughter	1 rejoicing	2 unhappiness
3 cheerfulness	1 fullness	1 leap	1 quality	1 unhappy
2 child	6 fun	1 letters		
1 children		3 life	4 rapture	1 vacation
2 Christmas	1 gaiety	2 light	2 rejoice	1 water
1 comes	1 gay	1 like	1 rejoicing	1 wedding
11 comfort	1 game	2 line	2 relief	1 wetness
1 comfortable	1 gift	1 lonely	7 ride	1 wish
1 company	2 girl	1 lots	2 riding	1 wonderful
1 complete	1 girls	6 love	1 rider	2 work
1 concert	27 glad	2 loving		1 wrath
1 contentment	44 gladness	1 lovely	1 sad	
	3 glee		13 sadness	
3 dance	1 godliness	1 man	2 sailing	
5 dancing	7 good	2 marriage	1 Saturday	1 youth
6 delight	1 grand	2 meeting	1 seldom	

87. BED

1 animal	1 covering	2 house	17 pillow	3 sleepiness
1 asleep	1 desired	9 iron	7 pillows	7 sleepy
1 baby	1 dormitory	1 joy	1 pleasure	3 slumber
3 bedding	1 down	2 large	3 post	7 sofa
4 bedstead	1 dreamland	8 lay	1 quilts	31 soft
4 blanket	1 ease	1 laziness	5 recline	5 spread
3 blankets	1 easiness	21 lie	1 recuperation	1 spring
1 boat	2 easy	6 lounge	1 refreshing	1 springs
1 bowl	1 fatigue	2 low	9 repose	1 square
3 brass	3 feathers	8 lying	1 respite	1 stove
2 bug	1 flannels	1 make	18 rest	1 structure
11 chair	1 floor	1 marriage	5 resting	2 table
2 clean	2 folding	21 mattress	1 restful	1 tick
1 cleanliness	1 frame	1 narrow	1 robe	1 time
12 clothes	26 furniture	1 negro	1 room	7 tired
2 clothing	1 go	11 night	1 seat	1 twilight
35 comfort	7 good	1 object	6 sheet	1 Vassar
1 comforts	2 hammock	1 pan	7 sheets	1 want
12 comfortable	5 hard	3 patient	1 shoes	1 warm
11 cot	1 head	— 345 sleep	2 sick	1 weariness
26 couch	2 home	1 peace	41 sleeping	1 whiteness
1 counterpane				1 wide
4 cover				4 wood
4 covers				

88. HEAVY

1 air	1 cloudy	1 heart	1 oppression	17 stone
1 animal	4 coal	2 hearted	1 oppressive	2 stones
1 anvil	1 coarse	1 heft		2 stout
1 article	1 coat	1 help	1 package	3 stove
1 automobile	1 comfort	2 horse	1 pail	1 strain
1 avordupois	1 cumbersome	1 house	1 person	4 strength
1 baby	1 dark	70 iron	1 piano	3 strong
1 bad	1 difficult	2 irons	2 ponderous	1 study
1 bat	1 dirt		1 pound	1 suit
2 bed	1 disappointment	1 labor	1 pounds	
3 big	1 discomfort	2 laden	2 pressure	5 table
1 body	1 dope	18 large	1 quicksilver	3 thick
3 books	1 drag	60 lead	2 quiet	1 things
1 boulders	1 drill	7 lift		1 thoughtful
1 box	1 drowsiness	1 lifting	2 rock	21 tired
1 boxes	10 drowsy	— 273 light	1 rough	2 tiresome
1 boy	3 dull	1 lightness		4 ton
1 bread		57 load	2 safe	1 tough
1 brick	1 effort	1 loadsome	1 sand	3 trunk
1 building	3 elephant	1 loud	1 satchel	
1 bullet			1 scales	1 uncomfortable
4 bundle	1 F.	1 machine	1 sharp	1 underwear
12 burden	1 fall	4 man	1 ship	1 very
3 burdensome	1 feel	1 marble	1 short	
	1 firmness	1 mountain	1 sickness	1 weak
1 cake	1 full	1 much	3 sleep	3 weariness
1 cannon		1 mud	1 sleeping	3 weary
1 carpet	8 gold	1 muscle	1 slothful	1 weather
2 carry	1 gorgeous	1 myself	1 slumber	1 weigh
1 carrying	1 grief		5 soft	1 weighing
1 cement	2 grip	1 no	1 soggy	177 weight
1 chair	3 hammer	1 obliging	3 solid	22 weighty
1 change	38 hard.	1 opposing	1 sound	1 weighted
1 cloth			1 steel	4 wood
1 clothes	2 head			2 work

89. TOBACCO

1 amber	1 elevate	1 Indian	69 pipe	7 strong
1 anger	1 enjoyed	3 injurious	3 pipes	1 substance
	1 enjoyment	1 intoxicate	38 plant	1 suffocation
10 bad	1 execrable		1 plants	2 sugar
1 bite	1 exhilaration	7 juice	3 pleasant	2 sweet
4 bitter	1 evil	17 leaf	2 pleasure	
1 Bob		2 leaves	6 poison	1 tasty
1 breath	1 field	1 light	1 poor	1 tobacco
7 brown	1 fields	1 liquor	2 pouch	
	4 filth	1 lungs	1 plug	1 unclean
28 chew	1 filthiness	2 luxury	1 refrain	2 unnecessary
13 chewing	1 filthy		1 ruin	2 unpleasant
19 cigar	1 food		1 ruin	1 unwholesome
17 cigars		3 man		2 use
12 cigarette	1 garden	1 men	1 scent	1 used
6 cigarettes	5 good		1 sensation	1 useful
2 comfort	3 green	10 narcotic	1 sin	2 useless
1 curse	1 grower	2 nasty	5 smell	
	1 growing	1 nausea	— 387 smoke.	3 vegetable
1 death		18 nicotine	98 smoking	1 vice
1 decay	12 habit	1 none	1 smoker	2 Virginia
1 deviltry	1 habits	1 not		44 weed
6 dirty	1 hard	1 nuisance	15 snuff	1 weeds
3 disagreeable	8 herb		1 solace	1 whiff
1 disgust	1 herbs	1 obnoxious	4 spit	1 whiskey
1 disgusting	1 horrid	3 odor	1 stalk	1 wickedness
3 drug	1 horrors	1 odorous	1 stars	
1 Durham		4 opium	2 stimulant	
			1 stimulants	1 yellow

90. BABY

1 animal	2 cross	1 happiness	1 milk	4 sleep
	8 cries	1 happy	41 mother	1 slight
5 beautiful	27 cry	1 harmless		42 small
2 beauty	20 crying	1 helpless	1 name	1 smallest
1 beginning	3 cunning	4 helplessness	5 nice	1 smiling
3 being	8 cute	4 home	6 noise	3 soft
1 bib	1 cuteness	3 human	1 noisy	2 softness
1 big			8 nuisance	2 squalls
1 birth	4 darling	168 infant	7 nurse	1 squeal
1 blessing	1 daughter	1 infinitesimal		1 squealing
1 blue	1 delicate	10 innocence	2 offspring	1 stout
2 body	1 dirty	4 innocent		1 sunshine
1 bonnet	1 doll		1 pacifier	23 sweet
2 born	6 dress	7 joy	1 paper	7 sweetness
6 bottle		1 jump	2 person	1 syrup
32 boy	1 embryonic	4 kid	2 pink	
1 bread	1 eyes		1 play	1 talk
1 buggy			1 pleasant	1 talks
1 bundle	1 fair	1 lamb	3 pleasure	1 tiny
	2 family	1 laugh	1 population	5 trouble
1 cap	5 fat	2 laughing	1 powder	1 two
3 care	1 father	1 Lawrence	7 pretty	1 wagon
28 carriage	1 feet	2 life		1 walking
2 cart	1 female	1 light	4 rattle	1 weak
280 child	1 flesh	12 little	1 rocker	1 weakness
3 children	1 food	1 Lorenzo	1 round	1 wee
1 childhood	1 friend	9 love	2 Ruth	1 white
1 chubby	1 future	1 loveliness		2 wife
4 clothes		1 lovely	1 sex	5 woman
8 comfort	26 girl		1 sick	
22 cradle	1 good	2 mama	1 sickness	2 yell
1 creation	1 goodness	4 man	1 simple	12 young
1 crib	1 growth	1 mankind	1 simplicity	1 youngster
1 crooning		1 Mary	2 sister	4 youth

91. MOON

1 astronomer	7 body	1 circular	1 delicate	1 fair
1 astronomy	52 bright	8 clear	1 delightful	2 fire
1 atmosphere	7 brightness	2 clouds	1 dim	1 firmament
	1 brilliant	4 cold	4 distance	10 full
2 ball		1 coldness	1 dreaming	
2 beam	1 calm	8 crescent	5 earth	1 girl
1 beams	1 change	1 cute	8 eclipse	1 globe
7 beautiful	4 cheese		1 equator	1 glowing
6 beauty	1 circle	2 dark	6 evening	1 grand

1 great	8 lunar	23 planet	26 shine	1 steamer
1 guard	8 man	1 planets	4 shines	1 stone
3 half	8 moonlight	1 pleasant	12 shining	2 struck
2 heaven	1 mountain	1 quiet	12 shiny	120 sun
3 heavens	1 mystery	1 reflection	4 silver	1 sweet
4 high		1 rise	6 silvery	
1 illumination	1 necessary	1 rises	1 size	1 turkey
	3 new	1 rising	78 sky	
1 lady	68 night	33 round	1 solar	1 valuable
1 lake			1 sound	
9 large	1 object	4 satellite	1 splendid	1 wan
231 light	1 ocean	2 sea	2 spoon	2 water
3 love	1 one	1 see	1 spooning	8 white
1 loveliness	1 orbit	1 seeing	32 star	1 wish
2 lovely	2 pale	1 sentimental	98 stars	
			1 starlight	11 yellow

92. SCISSORS

1 apart	8 dressmaking	1 instruments	1 nippers	1 skirt
4 article	5 dull	68 knife	8 paper	1 spool
2 barber	1 edge	6 knives	1 point	23 steel
1 blade	1 fate	1 lever	1 pointed	1 string
1 blades	1 firecrackers	1 linen	1 razor	2 tailor
1 blunt	1 flowers	1 lost	1 ruching	8 thimble
35 cloth	2 garments	2 machine	1 Sarah	4 thread
1 clothing	1 glistening	1 material	1 screw	1 tongz
1 cord	5 goods	1 metal	1 severing	10 tool
1 crooked	1 grating	1 millinery	2 sew	1 tools
2 crossed	7 grind	1 mother	10 sewing	1 trousers
847 cut			100 sharp	1 useful
114 cutting	1 handle	1 nails	5 sharpness	1 usefulness
1 cutlery	1 handy	1 necessity	1 sharpen	1 utensil
		4 needle	40 shears	1 weapon
1 dress	6 implement	4 needles	2 shut	1 woman
2 dressmaker	86 instrument	1 nickle	1 silver	2 work

93. QUIET

1 action	8 demure	2 life	3 pleasure	3 solemn
2 alone	1 disposition	1 like	2 solitude	2 solitude
1 always	1 docile	1 loneliness	1 quick	3 soothing
1 asleep	1 dreary	3 lonely	2 quite	4 sound
	1 dull	2 lonesome		2 soundless
2 baby	1 dumb	1 looks	1 rabbits	1 speechless
1 beautiful		1 lovely	1 refined	1 state
1 beauty	8 ease	48 loud	1 relief	2 steady
1 bed	1 easiness	1 low	6 repose	136 still
2 behave	49 easy	1 man	1 reserved	16 stillness
3 boisterous	5 evening	1 melancholy	6 rest	2 study
1 bore		1 man	4 resting	1 stupid
1 boy	1 family	1 mind	10 restful	1 subdued
1 breeze	1 feeling	1 Miss K.	2 restless	1 summer
1 brook		1 moon	6 room	1 Sunday
1 butterfly	1 genteel	1 mountains	1 rough	2 sweet
	3 gentle	1 music		
20 calm	1 gentleman	1 myself	1 sad	2 talk
1 cattle	2 girl		1 sea	1 time
6 child	7 good	1 nature	1 serene	1 times
1 children	1 green	2 nice	1 sheep	1 timid
4 church		88 night	1 sickness	1 tomb
1 color	1 happy	50 noise	18 silence	1 tranquil
2 comfort	2 harmless	16 noiseless	15 silent	1 tree
1 comfortable	1 harsh	1 noisiness	24 sleep	1 twilight
1 composed	1 heaven	113 noisy	8 sleeping	
2 contented	6 home	1 nook	1 sleepy	1 village
21 country	1 hour		8 slow	1 violent
1 Creal	8 house	1 park	1 slowness	1 voice
1 cricket	2 hospital	26 peace	1 slumber	
3 cross	1 humble	2 peaceable	1 slumbers	1 walk
		52 peaceful	1 smart	1 water
3 dark	1 joy	4 peacefulness	1 smooth	1 well
1 darkness		2 people	1 sober	1 Wilton
8 day	1 landscape	1 person	10 soft	1 wish
2 death	1 laughing	4 place	1 softly	1 wood
1 degree	1 library	4 pleasant	1 softness	10 woods

94. GREEN

8 apple	1 definite	1 grew	1 ocean	1 sky
2 beautiful	6 dress	1 grief	1 olive	1 slow
1 bird	2 earth	1 ground	2 orange	1 small
13 black	3 envy	1 hat	3 paint	1 soft
1 bloomy	1 Erin	1 hill	2 paper	2 sour
2 blotter	4 eyes	2 horn	1 peaceful	1 spinach
46 blue		1 horrid	2 peas	9 spring
1 book	1 farmer	1 hue	11 pink	1 stain
5 bright	1 favorite	6 Ireland	6 plant	1 summer
8 brown	12 field	14 Irish	1 plants	1 tea
1 butterfly	10 fields		2 pleasant	10 tree
1 cabbage	3 flag		1 pleasing	29 trees
1 calm	4 flower	1 jealousy	4 pretty	1 unripe
1 carpet	2 flowers	1 landscape	6 purple	
1 cheese	2 foliage	1 laurel	2 quiet	1 vegetable
3 cloth	1 food	5 lawn	42 red	1 vegetables
200 color	1 foolishness	13 leaves	6 restful	3 verdant
1 colors	1 forest	4 light	2 ribbon	1 verdure
1 comfort	8 fresh		2 ripe	1 warning
1 corn	1 fruit	13 leaves	2 sea	31 white
1 country	1 gay	4 light	4 shade	1 wearing
1 covetous	1 glasses	1 meadow	2 shamrock	1 wood
2 cucumber	1 gold	1 meadows	1 shutters	2 woods
1 curtain	1 grand	2 mountain	1 silk	
8 dark	— 284 grass	1 name	1 sight	54 yellow
1 Dartmouth	5 gray	4 nature	1 silk	1 young

95. SALT

1 acrid	1 dish	1 Lake	2 potato	18 sour
3 air	1 drink	1 life	4 potatoes	5 spice
1 apple	2 dry	1 lot	1 powder	1 spill
2 apples		4 mackerel	1 preparation	1 stickiness
1 article	5 earth	1 marsh	2 preservation	88 sugar
	17 eat	18 meat	1 preservatives	1 sustenance
1 barrel	7 eatable	1 meats	1 preserving	27 sweet
1 barren	8 eating	1 medicinal	1 quotation	1 Syracuse
1 bath	2 eggs	1 melt	1 refreshing	14 table
1 beef	1 epileptics	2 mine	2 relish	2 tart
40 bitter		3 mines	7 rock	87 taste
1 bowl	1 finish	37 mineral	1 rocks	1 tasting
1 box	4 fish	1 mustard	1 saline	2 tasteful
2 bread	21 flavor		1 saltpetre	6 tasty
2 brine	3 flavoring	1 NaCl	3 salty	1 tasteless
7 butter	46 food	5 necessary	1 temper	
	1 France	3 necessity	1 sandwiches	4 thirst
2 celery	11 fresh	1 needed	1 Saratoga	2 thirsty
9 cellar		1 needful	1 saving	1 trees
2 chemical	1 glass	1 nice	10 savor	7 use
1 codfish	9 good	38 ocean	1 savory	2 useful
2 condiment	1 halite		18 sea	1 uses
4 cook	1 ham		12 season	1 using
2 cooking	4 hard	1 pantry	31 seasoning	
1 cows	1 horrid	1 paper	2 shake	5 vegetable
1 cream		1 pasture	4 shaker	1 vegetables
	1 ice-cream	— 142 pepper	8 sharp	1 victuals
1 deposit	1 ingredient	1 petre	1 sheep	1 vinegar
1 digestible		1 physic	1 smart	
3 dinner	1 Kenilworth	1 pickles	1 snapping	34 water
1 dirt	1 kitchen	5 pork	1 sodium	2 wet
1 disagreeable		1 potassium	2 soup	36 white

96. STREET

1 air	3 boulevard	1 byway	1 confusion	1 Devon
18 alley	1 Bowery	1 congestion	1 direct	
6 asphalt	2 boy	2 corner	1 directions	
1 automobiles	1 brick	8 cars	1 country	4 dirt
63 avenue	2 broad	1 carriage	2 crooked	5 dirty
1 avenues	6 Broadway	82 city	1 cross	1 distance
	1 Brooklyn	1 Clarkson	3 crowd	1 drive
1 better	1 building	7 clean	1 crowded	1 driving
1 bitter	1 business	1 cleaner	1 dark	2 driveway
12 block	4 busy	1 colors		1 dry

4 dust	2 horses	1 nice	1 racket	26 town
5 dusty	1 hot	8 noise	1 residence	1 tracks
1 dwellings	11 house	5 noisy	91 road	7 traffic
	21 houses	12 number	4 roads	8 travel
1 earth	1 hustle	1 numbers	2 roadway	1 tree
1 Eighty-sixth				1 trees
1 Eleventh	8 land	1 One-fifteenth	1 see	2 trolley
1 Elm	21 lane	1 One-sixteenth	1 shopping	1 tumult
1 even	1 large	1 opening	3 short	1 vehicles
	1 length		26 sidewalk	9 village
1 fertile	1 level	11 passage	2 sidewalks	
1 Fifteenth	1 light	1 passageway	1 Sixty-seventh	3 wagon
1 fine	2 live	2 passway	2 Sixty-third	2 wagons
2 flags	2 location	12 path	2 smooth	78 walk
1 Forty-third	1 lonely	2 pathway	1 space	23 walking
	29 long	1 pave	4 square	2 walks
1 garden	5 Main	13 paved	8 stone	1 Wall
1 going	1 Market	25 pavement	8 stones	1 Washington
1 gravel	1 Maxfield	1 paving	17 straight	
2 gutter	1 motion	1 pebble	1 sun	14 way
		1 Pecan	1 sweep	1 wet
1 hard	1 mud	22 people	1 white	
1 heat	1 musician	16 place	35 wide	
1 Hester	2 name	2 pleasant	1 terrace	1 width
7 highway	21 narrow	1 pleasure	23 thoroughfare	1 Woodhull
1 home	8 New York	2 pretty		

97. KING

1 Albert	1 dog	8 head	8 majesty	-- 354 queen
1 all	1 duke	1 helmet	2 male	
3 Alphonso		2 Henry	43 man	1 regal
1 antiquity	30 Edward	2 high	3 master	1 regent
1 Arthur	11 emperor	1 Holland	1 mean	8 reign
4 authority	3 empire	1 honorable	1 Midas	1 rich
	20 England	1 horrible	49 monarch	1 Richard
1 bad	1 ermine		4 monarchy	2 royal
1 boss		1 imperial		5 royalty
	1 family	1 inheritance		
1 card	1 farce	1 Italy	1 nation	10 rule
1 cards	1 first		1 nobility	4 rules
2 chess	1 fool	1 John	3 noble	162 ruler
1 chief	1 foreign	1 judgment	2 nobleman	
3 command	1 friend		1 none	1 Saxony
1 commanding		2 Kaiser	1 officer	2 sceptre
9 commander	1 garment	1 king	1 old	1 slave
2 conqueror	2 George	5 kingdom		1 somebody
18 country	1 glory			8 sovereign
1 court	1 good	1 large	2 palace	1 Spain
1 courtier	1 govern	1 law	6 person	1 stories
63 crown	4 government	2 leader	1 picture	2 subject
2 crowned	6 governor	1 lion	2 pompous	1 supreme
	2 great	1 lord	18 power	
1 daughter	1 greatness	1 Louis XVI.	4 powerful	21 throne
1 diamonds		1 loyal	4 president	1 title
1 dignity	1 Hamlet		1 princess	1 town
1 dislike	1 happy	1 majestic	1 Prussia	1 tyrant

98. CHEESE

2 American	1 corn	1 Dutch	5 green	1 lump
	9 cow		1 grocer	2 lunch
1 bacteria	3 cows	1 eagle	1 grocery	
2 bad	1 cracker	67 eat		1 macaroni
2 beer	30 crackers	29 eating	1 ham	1 maggot
1 biscuit	30 cream	1 eaten	2 hard	2 maggots
6 bitter	1 creamery	19 eatable	1 head	1 meat
2 box	1 crust	3 eatables	1 heap	25 mice
56 bread	9 curd	1 edible	2 hole	1 microbes
1 brick	3 curds	2 eggs	2 holes	1 mild
	2 cut		2 holey	106 milk
—136 butter	1 cutter	1 factory	1 hoops	1 milky
2 buttermilk		2 fat	1 hunger	1 mixture
8 cake	4 dairy	1 feast	1 hungry	2 moon
2 Camembert	2 delicatessen	1 fine		1 mould
1 casein	1 derby	1 fondness	1 indigestion	1 mouldy
1 chalk	2 diet	91 food	1 jam	13 mouse
1 cheesecloth	1 digestible	2 fresh		2 mustard
1 churn	1 digestion	1 fromage de	1 kind	
4 cloth	2 dinner	Brie	4 knife	1 nice
1 cold	1 dish			1 nourishment
4 color	4 dislike	15 good	18 Limburger	1 nutrition

9 odor	4 rabbit	1 salt	2 solid	1 tasty
1 odorous	8 rat	2 sandwich	5 sour	1 thin
	7 rats	2 sandwiches	1 strengthening	
1 pickles	1 red	1 sauce	12 strong	5 vegetable
6 pie	1 resentment	1 scent	1 sugar	1 vegetables
1 plain	1 rich	2 Switzer	5 supper	
1 plate	4 Roquefort	3 sharp	2 sweet	1 wafers
1 poor	1 rough	1 skippers	16 Swiss	3 white
1 poultry	2 round	33 smell	1 Switzerland	1 worms
1 price		1 smells		
2 product	1 sage	7 soft	8 taste	32 yellow

99. BLOSSOM

50 apple	1 clover	39 fruit	2 odor	1 seeds
4 apples	5 color	2 orange	1 shrubberies	
1 art	1 colors	2 garden	2 orchard	1 small
	1 country	1 gin		2 smell
10 beautiful	1 dainty	1 girl	1 pansies	1 soft
9 beauty	2 daisy	1 green	1 pansy	23 spring
1 beginning	1 delicate	2 grow	1 peacefulness	1 sprout
1 berries		2 growth	4 peach	1 stem
28 bloom	1 eat	1 handsome	1 petal	4 summer
7 blooming		1 happiness	1 petals	1 sun
1 blow	2 fair	1 hepatica	1 picking	15 sweet
1 book	1 falling		7 pink	
4 bright	1 falls	3 leaf	13 plant	1 T.
23 bud	3 field	1 leaves	1 pleasure	40 tree
3 buds	1 fields	2 lilacs	1 plum	17 trees
1 bursting	73 flower	1 lily	1 pour	
1 bush	73 flowers	1 magnificent	15 pretty	1 vine
2 bushes		2 May	3 red	1 weeds
1 buttercups	1 foliage	1 mimosa	17 rose	8 white
5 cherries	2 forth	1 nice	4 roses	
4 cherry	6 fragrance		1 scent	2 yellow
1 clematis	1 fragrant			1 youth
	1 frail			

100. AFRAID

1 accidents	5 cowardice	2 ghosts	4 nervousness	1 soldier
1 action	3 cowardly	1 girl	3 never	1 somebody
2 alarm	1 crowd	4 go	12 night	1 sore
2 always	1 crying	1 goblins	3 no	2 sorrow
3 anger		1 God	1 nobody	1 sorry
2 angry	15 danger	1 guilty	2 noise	1 spirit
2 animal	2 dangerous		1 noisy	1 spiritual
2 animals	1 dare	1 happy	1 not	1 startled
1 anxiety	114 dark	2 harm	5 nothing	1 startling
2 automobile	16 darkness	1 heart		1 stay
1 awful	2 death	1 heroism		1 stillness
1 backwardness	1 deep	1 hide	1 obsession	1 strong
2 bad	1 desire	1 home	1 opposition	1 suddenness
2 bashful	1 dislike	1 hope	1 palpitation	1 suffering
1 battle	1 do	1 horse	1 patient	1 sure
1 bears	1 dog	1 hurt	1 patients	
1 blow	1 dogs	1 insect	1 plucky	1 tempted
2 bold	1 don't	1 joy	1 police	1 terrified
1 boy	1 doubt	1 joyful	1 quiet	9 terror
18 brave	7 dread	1 licked	1 rat	3 thief
1 bravery	1 dreading	1 lightning	1 rats	1 thought
1 brother	1 dreadful	3 lion	1 riot	1 threaten
3 burglar	1 dream	1 loneliness	1 retreat	1 thunder
2 burglars		3 lonely	2 robbers	55 timid
1 careful	2 emotion	1 loss	1 rocks	2 timidity
2 cat	2 faith	5 lonesome	4 run	1 timorous
1 cheerfulness	197 fear	1 loss	1 running	1 to-night
8 child	8 fearful	3 man	1 scare	2 tremble
1 children	8 fearless	1 manner	106 scared	1 trust
1 cold	2 feeling	1 memory	1 scary	1 unable
1 comfort	1 fierce	1 mild	1 scream	1 uncertain
1 comforted	1 forward	1 Miss K.	1 sensitive	5 uneasy
1 company	9 fright	1 mice	1 shiver	1 unhappiness
1 confidence	2 frightened	2 mouse	2 shrinking	1 unknown
1 conscience	48 frightened		1 shudder	1 unprotected
11 courage	1 frightful	1 need	2 shy	1 woman
5 courageous	1 frog	2 nerve	1 sickness	1 women
1 cow		1 nerves	1 sleep	1 worried
1 cows	1 gallant	55 nervous		3 worry
53 coward	4 ghost			

APPENDIX TO THE FREQUENCY TABLES

General Rules.

1. Any word combination which is to be found in the frequency tables, but only in the reverse order from that in which it occurs in a test record under consideration, is to be classed as a normal reaction.
2. Any reaction word which is a synonym or an antonym of the corresponding stimulus word is to be classed as normal.

1. TABLE

- Any food or meal.
- Any room or apartment.
- Any article of table linen, china, silver, or furnishings.
- Word designating any special variety of tables.
- Any word pertaining to appetite.

2. DARK

- Any source of illumination.
- Any enclosure from which light is wholly or in a large measure excluded.
- Word referring to physiological pigmentation of tissues exposed to view.
- Any division of the diurnal cycle.
- Any color or coloring material.
- Anything which obscures light.

3. MUSIC

- Any musical instrument.
- Name of any composer or musician.
- Special or general name of any musical composition.
- Term designating rhythm, tempo, loudness, or pitch.
- Name of any dance.
- Term expressing subjective effect of music.

4. SICKNESS

- Term designating any disease, symptom, injury, or physiological function.
- Any cause of disease.
- Any means or measure of treatment of disease.
- Any anatomical organ or region.

Word denoting mode of termination, results, consequences, or indirect effects of disease.

Any term of prognostic import.

Common or proper name of any person.

5. MAN

Word denoting or implying age of a person.

Any of the well-known male sexual characteristics.

Occupation or profession more or less peculiarly masculine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

The proper name of any male person.

Any article of male apparel.

6. DEEP

Any vessel or container.

Any natural or artificial body of water.

Any depression of surface.

Any object naturally situated or often artificially placed at a comparatively great distance below the surface.

Any act of progress from surface to depth.

7. SOFT

Any article of food.

Any fabric.

8. EATING

Any article of table linen, china, or silver.

Any organ of digestion; any function of nutrition.

Any article of food; any meal.

Any private or public eating place.

Word denoting taste.

9. MOUNTAIN

Name of any mountain, mountain range, or mountainous country.

Word pertaining to shape, geological composition, fauna, or flora of mountains or mountainous regions.

Any term of physical geography.

10. HOUSE

Any place of house location.
Any part of a house.
Any material used in the construction of a house.
Any part of the process of construction of a house.
Laborer or mechanic having to do with the construction of a house.
Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a house.
Any article of furniture.

11. BLACK

Any object or substance that is always or often black or dark in color.
Any color.
Word denoting limitation or obscuration of light.
Any word clearly related to the word Black used as a proper name.

12. MUTTON

Any article of food; any meal.
Any animal, or class or group of animals, whose meat is used for human consumption as food.
Any article of table linen, china, silver; any cooking utensil.
Word designating any person engaged in the preparation of meats for consumption.
Word denoting any process employed in the preparation of meats for consumption.

13. COMFORT

Any agreeable or disagreeable subjective state.
Any object, act, or condition that contributes to comfort or produces discomfort.

14. HAND

Any simple function of the hand; work requiring special manipulation.
Word denoting skill or any degree of skill.
Any part or any tissue of the body.

15. SHORT

Any word involving the concept of duration.
Common or proper name of any person.
Any word denoting shape, relative or absolute dimension, or distance.
Any object in which characteristically one dimension exceeds any other.

16. FRUIT

Any article of food; any meal.
Any process employed in the cultivation of fruits or in their preparation for consumption.
Word designating any person engaged in the cultivation of fruits or in their preparation for consumption.
Any article of table linen, china, or silver.

17. BUTTERFLY

Any bird, worm, or insect.
Any flower.
Any color.

18. SMOOTH

Any object possessing a smooth surface as a characteristic feature.
Any fabric.

19. COMMAND

Word denoting any means of influence of one mind upon another intended to produce acquiescence.
Word denoting or implying acquiescence or lack of it.
Term applied to any commanding officer or to any person in authority.

20. CHAIR

Any article of furniture.
Any room or apartment.

21. SWEET

Any substance having a sweet taste.
Common or proper name of a child or woman.

22. WHISTLE

Any instrument or any animal producing a shrill musical sound.

23. WOMAN

Word denoting or implying age of a person.
Any of the well-known female sexual characteristics.
Occupation or profession more or less peculiarly feminine.
Word pertaining to familial relationships or domestic organization.
Word pertaining to sexual relationships; any word denoting the opposite sex.
Name of any female person.
Any article of female apparel.

24. COLD

Name of any location characterized by low temperature.
Any illness or symptom which may be caused by exposure to cold.
Any division of the annual cycle.
Any food that is always or often served cold.
Any means or measure of protection against cold.
Any state of the natural elements causing a sensation of cold.
Word denoting subjective characterization of or reaction to cold.

25. SLOW

Any means or manner of locomotion.
Any word involving the concept of rate of progress with reference either to time or to intensity of action.
Common or proper name of any person.

26. WISH

Word implying fulfillment of a wish either by achievement or through acquiescence.
Word implying non-fulfillment of a wish.
Word denoting any state of longing or anticipation.
Word denoting any state free from longing or anticipation.
Word denoting a prayer or request.
Word denoting a state of happiness.

27. RIVER

Any body of water.
Any part of a river.
Any plant or animal living in rivers.
Any term of physical geography.
Any vessel or contrivance for navigation.

28. WHITE

Any object or substance that is always or often white or very light in color
Any color.
Any word clearly related to the word White used as a proper name.

29. BEAUTIFUL

Any word denoting aesthetic pleasure.
Name or any female person.
Any product of the fine arts or of decorative handicraft.
Any decorative plant or flower.
Any article of attire.
Natural scenery.
Any division of the diurnal cycle.

30. WINDOW

Any word pertaining to illumination.

Word pertaining to movements of air.

Any attachment to a window for the control of transmission of light or air.

Any building or apartment.

31. ROUGH

Any object or substance which is characteristically rough to the touch.

Word denoting or implying irregularity of surface.

Any skin lesion which may impart to the skin the quality of roughness.

Any word implying carelessness, lack of consideration, or crudeness; any word used to designate action or conduct which may be characterized as careless, inconsiderate, or crude.

32. CITIZEN

Any word pertaining to political organization, or to factors either favorable or unfavorable to it.

Any term or proper name of political geography.

Common or proper name of any male person.

33. FOOT

Any means or manner of locomotion involving the use of the feet.

Any part or any tissue of the animal body.

Any article of foot-wear.

Any way constructed or used for walking.

Any unit of linear measure.

34. SPIDER

Word employed to designate subjective characterization of or reaction to an object of dislike.

Any insect.

Word pertaining to the characteristic habits of spiders, with reference either to location and construction of nest, or to manner of catching prey.

35. NEEDLE

Any material used in making clothes.

Any special sewing operation; any occupation in which sewing constitutes part of the work.

Any special kind of needles.

Any instrument which is used in connection with a needle in any operation, or of which a needle forms a part.

36. RED

Word which may be used to express subjective characterization of the red color.

Any object or substance which is always or often red in color.

Anything which is by convention or common usage connected with the red color.

Any organ, tissue, or lesion, exposed to view, which may have a red color imparted to it by the blood or by physiological pigment.

Any color or coloring material.

Any word implying light through incandescence.

37. SLEEP

Word denoting somnolence or a state of lowered consciousness; anything which is a cause of somnolence or of lowered consciousness; anything which induces a desire to sleep.

Word denoting a state of active consciousness or a transition from lowered to more active consciousness.

Any division of the diurnal cycle.

Any word more or less commonly used to characterize sleep in any way.

Any article of bedding, bed-linen, or night-clothes.

Any article of furniture used for sitting or lying.

38. ANGER

Any affective state; any common demonstration of emotion.

Any common cause or provocation of anger.

Action or conduct caused by anger; word used to characterize such action or conduct.

39. CARPET

Any material of which carpets are made.

Any article of house furniture, hangings, or decorations.

Word denoting home, house, or any part of a house.

Word pertaining to the manufacture or care of carpets, or denoting a person engaged in the manufacture, sale, or care of carpets.

Any country especially noted for the manufacture of carpets or rugs.

Any color.

40. GIRL

Word denoting or implying age of a person.

Any of the well-known female sexual characteristics.

Occupation or profession more or less peculiarly feminine.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Name of any female person.

Any part of a person's body.

Any article of female apparel.

41. HIGH

Any word denoting or implying skill, training, achievement, or position.
Any word denoting or implying valuation.
Any architectural structure.
Any object of which the vertical dimension characteristically exceeds any other.
Any act of progress from a lower to a higher level.
Name of any mountain or mountain range.
Anything characteristically situated at a high level.
Anything characteristically variable in height.

42. WORKING

Any occupation, profession, art, or labor.
Direct results or consequences of work.
Any place of employment.
Rest, recreation, inaction, or disinclination to work.
Word denoting energy, material, capital, equipment.

43. SOUR

Any substance or object which is always or often sour in taste.
Any word denoting a taste or flavor quality.

44. EARTH

Any substance which enters into the composition of soil.
Word pertaining to the utilization or cultivation of natural resources; any product of agriculture.
Any term of physical geography, geology, mineralogy, meteorology, or astronomy.

45. TROUBLE

Any affective state.
Any general cause of active emotional states.
Any common manifestation of emotion.
Word denoting or implying defeat.
Word denoting or implying caution or lack of it.
Any task.

46. SOLDIER

Word pertaining to military organization.
Word pertaining to any military operation.
Word pertaining to military discipline or to military decoration.
Any article of military or naval equipment or attire.
Common or proper name of any male person.
Name of any country.
Word pertaining to political organization.

47. CABBAGE

Any article of food; any meal.
Any article of table linen, china, silver; any cooking utensil.
Any process of cooking.
Word used to designate any person engaged in the cultivation of cabbages or in their preparation for consumption.

48. HARD

Any solid article of food.
Word denoting or implying impact.
Any task or labor.
Any substance which is hard or unyielding.
Any agency or process by which a substance is solidified or hardened.
Any article of furniture used for sitting or lying.
Any trait of disposition characterized by lack of readiness to yield or lack of consideration for others.

49. EAGLE

Any bird.
Any piece of currency.
Anything in connection with which the word eagle is used in a symbolic sense.

50. STOMACH

Any anatomical organ or region.
Any article of food; any meal.
Word pertaining to ingestion and assimilation of food.
Term denoting health or disease; any medicament.

51. STEM

Any object which has a stem.
Any part of a plant.
Any object which is long, slender, and more or less rigid.

52. LAMP

Any means or source of illumination.
Word denoting or implying illumination.

53. DREAM

Any product of imagination.
Any psychical phenomenon; any part of the psychical organ.
Word denoting or implying unreality or uselessness.
Word denoting or implying mystery or occultism.
Any division of the diurnal cycle.
Any article of bedding, bed-linen or night-clothes.
Any article of furniture used for sitting or lying.
Any narcotic substance.

54. YELLOW

Word which may be used to denote subjective characterization of the yellow color.

Any object or substance which is always or often yellow in color.
Any color or coloring material.

55. BREAD

Any article of food; any meal.

Any article of table linen, china, or silver; any cooking utensil.

Any private or public eating place.

Word pertaining to ingestion and assimilation of food.

Any ceremony in connection with which bread is used.

56. JUSTICE

Any word implying crime or tendency to crime, legal trial, retribution or lack of it, or repentance.

Any officer of the law.

Word pertaining to judiciary organization.

Word denoting any kind of ethical relationship.

Any deity.

The name of any justice or judge.

Any function of a judicial authority.

Any word denoting or implying equality.

57. BOY

Word denoting or implying age of a person.

Word pertaining to familial relationships or domestic organization.

Word pertaining to sexual relationships; any word denoting the opposite sex.

Common or proper name of any male person.

Any part of a person's body.

Any article of male apparel.

Any common boys' toy or game.

Word pertaining to educational organization.

58. LIGHT

Any source, apparatus, or means of illumination.

Any color or coloring material.

Word implying light through incandescence.

Any term of optics; any optical phenomenon.

Any object or substance which is characteristically light in weight.

59. HEALTH

Any emotion; any common manifestation of emotion.
Any disease or symptom.
Word pertaining to prevention or treatment of disease.
Word pertaining to any normal bodily function.
Word pertaining to the preservation of health.
Word denoting or implying a state of health.
Any athletic sport or form of exercise.
Any anatomical organ or region.

60. BIBLE

Name of any personage mentioned in the Bible.
Any religion or religious denomination.
Any name or attribute employed in reference to the Deity.
Any article or act of religious ritual.
Word denoting or implying belief, disbelief, or doubt.
Any term of theology.

61. MEMORY

Word pertaining to operations, faculties, endowment, training, or condition of the mind.
Word denoting any degree of accuracy.
Word denoting the cranium; any part of the psychical organ.
Word pertaining to the past.
Any word implying transiency.
Any subject of study involving the exercise of memory.
Any method or means for the reinforcement of memory.
Any of the senses.
Word denoting retention.

62. SHEEP

Any animal raised or hunted for clothing material, for food, or for its services as a beast of burden.
Any product manufactured from the skin or wool of sheep.
Any of the more or less distinctive characteristics of sheep.
Any food product derived from sheep.

63. BATH

Word denoting or implying an effect of bathing on the body.
Any body of water.
Any kind of bath; any part of bath, lavatory, or toilet equipment.
Any material of which a bathing equipment is largely made.
Word denoting a state of partial or complete undress.
Any beach or bathing resort.
Any aquatic feat of gymnastics.

64. COTTAGE

Word pertaining to landscape gardening.
Any place of cottage location.
Any part of a house; any color.
Any material used in the construction of a cottage.
Any laborer or mechanic having to do with the construction of a cottage.
Any part of the process of construction of a cottage.
Any commercial term pertaining to ownership, taxes, mortgages, sale, renting, or occupancy of a cottage.
Any article of furniture.

65. SWIFT

Any means or manner of locomotion.
Word denoting or implying motion or rate of motion.
Any animal or familiar object characterized by rapid locomotion.
Any word clearly related to the word Swift used as a proper name.

66. BLUE

Word which may be used to express subjective characterization of the blue color.
Any object or substance which is always or often blue in color.
Anything which is by convention or common usage connected with the blue color.
Any organ, tissue, or lesion, exposed to view, which may have a blue color imparted to it by the blood or by physiological pigment.
Any color or coloring material.

67. HUNGRY

Any animal.
Any article of food; any meal.
Word denoting taste or flavor.
Word denoting or implying privation or torture.
Any article of table linen, china, or silver.
Any private or public eating place.
Any organ of digestion; any function of nutrition.
Word designating any person engaged in the preparation or sale of foods.

68. PRIEST

Any religion or denomination.
Any article or act of religious ritual.
Any term of theology.
Word denoting or implying sanctity.
Word denoting or implying belief, disbelief, or doubt.
Word pertaining to church organization.
Proper name of any priest.
Any article of clerical attire.
Any profession more or less peculiarly masculine.

69. OCEAN

Any body of water.
Any plant or animal living in the ocean.
Any term of physical geography.
Any vessel or contrivance for navigation.
Word pertaining to navigation; any nautical term.
Common or proper name of any place bordering on the ocean.
Any aquatic feat of gymnastics.

70. HEAD

Any organization which has a person occupying the highest office.
Word denoting or implying the highest office of any organization.
Any intellectual faculty, quality, or operation.
Any part of the head.
Any pathological condition affecting the head.

71. STOVE

Any part of a stove.
Any kitchen utensil.
Any artificial heating apparatus; any fuel.
Any manner of cooking; any person engaged in cooking food.
Any article of household furniture.

72. LONG

Any word involving the concept of duration.
Word denoting shape, relative or absolute dimension, or distance.
Any object in which characteristically one dimension exceeds any other.

73. RELIGION

Any religion or denomination; the name of any race or nation.
Any term of theology.
Any branch of metaphysical philosophy.

74. WHISKEY

Any beverage; the name of any brand of whiskey.
Any material of which whiskey is made.
Word denoting taste or flavor.
Any occasion or ceremony commonly associated with the use of alcoholic beverages.
Word denoting a state of lowered consciousness.
Any physiological or pathological effect of alcohol; also any well known indirect effect.

75. CHILD

Word denoting or implying age of a person.
Word pertaining to familial relationships or domestic organization.
Name of any person.

Any part of a person's body.
Any article of a child's apparel.
Any common child's toy or game.
Word pertaining to educational organization.
Any word descriptive of the natural physical or mental make-up of a child, or of the rate or degree of physical or mental development.
Word pertaining to any custom or ceremony connected with the birth or rearing of children.
Any term of obstetrics.
Any word clearly related to the word Child used as a proper name.

76. BITTER

Any substance having a bitter, sour, sweet, or salt taste, or a complex taste quality which may be characterized as strong.
Word denoting a taste or flavor quality.
Any organ of taste.
Any word in connection with which the word bitter may be used in the sense of poignant.

77. HAMMER

Any tool or weapon.
Any trade involving the use of a hammer.

78. THIRSTY

Any beverage.
Any animal.
Word denoting taste or taste quality.
Any part of the upper end of the digestive tract.
Any drinking place; any container of a beverage.
Any fruit; any dessert.
Any food ingredient commonly known to excite thirst.

79. CITY

Name of any division of political geography.
Any architectural structure.
Any part of a city.
Word pertaining to the political organization of a city.

80. SQUARE

The name of any city.
The name of any square in a city or town.
Any geometrical figure or part of one.
Any object that is always or often square in shape.
Any device used in the arts for measuring angles, arcs, or distances between points.
Any part of a carpenter's or draughtsman's square.
Any trade involving the use of the square.

S1. BUTTER

Any article of food; any meal.
Any article of table linen, china, or silver; any cooking utensil.
Any process of cooking.

S2. DOCTOR

The name of any physician.
Any medical speciality or practice.
Any medical or surgical procedure.
Any therapeutic remedy or method.
Any organization for the treatment of disease.
Name of any injury or disease.

S3. LOUD

Any sound or sound quality.
Any part of the human vocal apparatus.
Any act of vocalization.
Any musical instrument.
Any apparatus for making sound signals.
Word denoting renown or commendation.

S4. THIEF

Word denoting crime or wrongdoing.
Word denoting any circumstance propitious for theft.
Any common measure for the prevention or punishment of crime.
Any judicial, police, or penal authority.
Any readily portable article of value.
Word denoting renown.

S5. LION

Word denoting or implying fear.
Any animal.

S6. JOY

Word denoting a state, quality, faculty, or function of the mind.
Any common manifestation of emotion.
Any occasion, act, or means of recreation or of pleasurable excitement.

S7. BED

Any article of bedding, bed linen, or night-clothes.
Any article of furniture.
Any living room, apartment, or building.
Any part of a room.
Any division of the diurnal cycle.
Any material of which beds are made.
Word pertaining to sleep or rest.

88. HEAVY

Word denoting or implying weight or lightness.
Any object or substance which characteristically possesses the quality of either great weight or marked lightness.
Any means of support or suspension.
Any fabric; any article of clothing or bedding.
Word denoting something to be carried or transferred.
Any painful emotion.
Word denoting a state of lowered consciousness.

89. TOBACCO

The name of any brand or variety of tobacco.
Term denoting any common quality of tobacco.
Any physiological or pathological effect of tobacco.
Any word which expresses subjective characterization of tobacco.

90. BABY

Word denoting or implying age or size of a person.
Word pertaining to familial relationships or domestic organization.
Name of any person.
Any part of a person's body.
Any article of a child's apparel.
Any common child's toy or game.
Word pertaining to any custom or ceremony connected with the birth or rearing of children.
Any term of obstetrics.

91. MOON

Any term of astronomy.
Word denoting or implying illumination or obscuration of light.
Any division of the diurnal cycle.

92. SCISSORS

Any operation or handicraft involving the use of scissors.
Any fabric; any article of clothing.
Any metal of which scissors are made.
Any tool for cutting, piercing, or sharpening.
Any operation of cutting, piercing, or sharpening.

93. QUIET

Any place where silence usually prevails or is enforced.
Word denoting or implying a state of lowered psychical activity or of psychical inhibition.
Word denoting heightened psychical activity.
Any word pertaining to the emotions.

94. GREEN

Word which may be used to express subjective characterization of the green color.

Any object or substance which is always or often green in color.

Anything which is by convention or common usage connected with the green color.

Any color or coloring material.

Any plant, collection of plants, or part of a plant.

Any word clearly related to the word Green used as a proper name.

95. SALT

Any article of food that is usually seasoned with salt; any seasoning; any relish.

Any article of table linen, china, or silver.

Any process of cooking.

Any term of chemistry.

96. STREET

Name of any street or city.

Any part of a street.

Any building.

Any manner or means of locomotion commonly employed in traveling through streets.

97. KING

Any name of the Deity.

The proper or common name of any ruler of a nation or of a smaller municipality.

Any nation or country.

Any title of nobility.

Any word clearly related to the word King used as a proper name.

98. CHEESE

Any article of food; any meal.

Word denoting any variety of cheese.

Word pertaining to taste, flavor, or odor.

Word pertaining to appetite.

Any article of table linen, china, or silver.

99. BLOSSOM

Any plant, collection of plants, or part of a plant.

Any term of botany.

Any division of the annual cycle.

100. AFRAID

Any affective state; any common demonstration of emotion.

Any common object of fear.

Word denoting or implying danger, courage; any means of defense or protection against danger.

